

Using Classroom Data to Set Goals and Monitor Student Progress

Jim Wright

www.interventioncentral.org



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Student self-monitoring is an effective tool for behavior change that requires the student to take an active intervention role. Learn the 7steps to quickly set up a self-monitoring intervention.



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 Intervention Central provides teachers, schools and districts with free resources to help struggling learners and implement Response to Intervention and attain the Common Core State Standards. [Spread the word about ICI](#)

 [31 July 2013] Use Direct Instruction to Reach Struggling Learners. Teachers can make challenging academic material accessible by building assistance directly into instruction. This [checklist](#) is designed for general-education teachers and summarizes essential elements of a direct-instruction approach.

Free Classroom Intervention Kit

	Intervention Planner for Academics	Manual	Sample Reading-Fluency Interventions
	Intervention Planner for Behavior	Manual	Sample Relationship-Building Strategies

Featured Tools

-  [Academic Intervention Planner for Struggling Students](#)
-  [Behavior Intervention Planner](#)
-  [Behavior Rating Scales Report Card Maker](#)
-  [ChartDog Graph Maker](#)
-  [Dolch Wordlist Fluency Generator](#)
-  [Early Math Fluency Generator](#)
-  [Learning Disability Accommodations Finder](#)
-  [Letter Name Fluency Generator](#)
-  [Math Work - Math Worksheet Generator](#)
-  [Reading Fluency Passages Generator](#)
-  [Student Academic Success Strategies - Checklist Maker](#)
-  [Student Rewards - Jackpot](#)

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RTI Toolkit: A Practical Guide for Schools

Classroom Data Collection: Resources

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Workshop Downloads at: <http://www.interventioncentral.org/data>

Workshop PPTs and handout available at:

<http://www.interventioncentral.org/data>

MTSS: Admins/Interventionists: Qs

- How best can we track students when groups are flexible, and therefore, change frequently? How do we most effectively track, when incoming students are then mixed with students who have already received weeks of intervention?
- I would like to ask him what other universal screeners or math assessments to recommend as entrance criteria for Tier 2? We currently only use AIMS and teacher recommendations.

MTSS: Elementary: Your Questions for Today

- How do we progress monitor skills (or do we need to?) - Smaller incremental skills rather than global growth. (Aims feels like it misses the skills we are focusing on...)
- How do we progress monitor writing skills?
- Tier I and II progress monitoring for social skills?
- Can you provide us with examples of tier 1, 2, 3 behavior interventions and tools for progress monitoring?

Team Activity: Provide an RTI/MTSS Update

Each building team will:

- appoint a spokesperson.
- prepare to update the group on the RTI/MTSS work that it has accomplished since our last district meeting in November.
- note any RTI/MTSS questions that your team has or technical assistance that you need.

Take a few minutes to discuss your accomplishments and prepare a brief report-out.



The image shows a screenshot of a digital timer from the website Intervention Central. At the top, the logo "InterventionCentral" is displayed in a colorful, multi-colored font. Below the logo, it says "10-Minute 'Count Down' Timer". The main display shows the time "10:00" in large red digits. Below the timer, the website URL "www.interventioncentral.org" is visible. At the bottom of the screenshot, a list of school names is shown, including Colonial Elementary School, Hutchinson Elementary School, Pelham Memorial High School, Pelham Middle School, Prospect Hill Elementary, and Siwanoy Elementary School.

4 Goals for Today's Data-Collection Workshop

1. US: Review key principles of data collection and interpretation.
2. US: Examine specific data-collection tools.
3. YOU: Identify which concepts and tools will be most helpful to you.
4. YOU: Decide on 'next steps' to use today's workshop ideas and resources back in your school/district.

ACADEMIC RTI

Tier 3: High-Risk Students: 5%

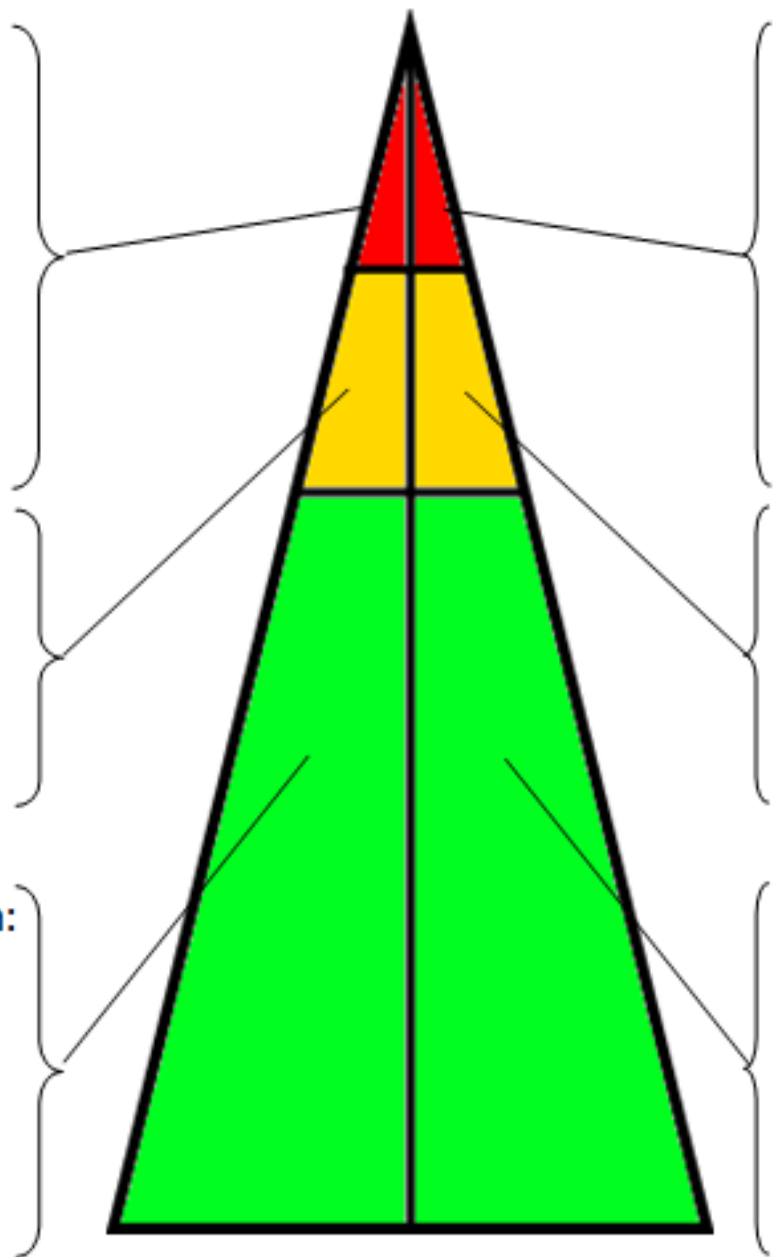
- Diagnostic assessment of academic problems
- RTI Team Meetings
- Customized/intensive academic intervention plan
- Daily progress-monitoring

Tier 2: At-Risk Students: 15%

- Small-group interventions to address off-grade-level academic deficits
- Regular progress-monitoring

Tier 1: Universal: Core Instruction: 80%

- Effective group instruction
- Universal academic screening
- Academic interventions for struggling students



BEHAVIORAL RTI

Tier 3: High-Risk Students: 5%

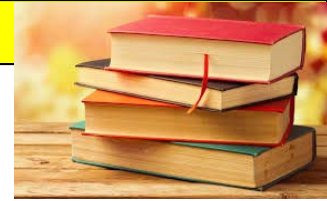
- Functional Behavioral Assessments (FBAs)
- Behavior Intervention Plans (BIPs)
- Wrap-around RTI Team meetings
- Daily progress-monitoring

Tier 2: At-Risk Students: 15%

- Small-group interventions for emerging behavioral problems
- Regular progress-monitoring

Tier 1: Universal: Classroom Management: 80%

- Clear behavioral expectations
- Effective class-wide management strategies
- Universal behavior screening



The Struggling Student: Data Tells a Story...

Whenever a student has behavioral challenges, you look to data to tell a coherent story about the student. If any of these elements are missing, the 'data story' can become garbled:

- ❖ What academic/behavior problem(s) is the student experiencing?
- ❖ What is the student's current performance?
- ❖ What goal will you set to show that the behavior has improved?
- ❖ How will you use data as feedback to judge your intervention's effectiveness?

RTI/MTSS Files

Jared
Grade 5

Problem: Failure to recall information from readings

Intervention:
Read Actively



RTI/MTSS Files

- **Problem:** Jared is a fluent reader but frequently fails to monitor his understanding when reading assigned non-fiction passages. As a result, he often fails to recall key information (generalization deficit).
- **Intervention:** Jared's 5th-grade teacher, Mr. Griffin, chooses **Read Actively** as a student strategy to promote better recall of key ideas.



Classroom Intervention Plan for Jared

Description of the Student Problem		
Environmental Conditions or Task Demands	Problem Description	Typical or Expected Level of Performance
When assigned to read an informational passage and to complete a written recall	Jared is inconsistent in recalling main ideas/details from the passage	while written recalls from the majority of the class include mo ide

Classroom peer performance (work samples)

General Problem: *Jared does not recall key ideas from readings.*

Reading Comprehension: Read Actively

- The instructor teaches students to first read through each paragraph, paying attention to the topic and important details and facts.
- The instructor then directs students to cover the paragraph and state (or silently recall) the key details of the passage.
- Finally, the instructor prompts students to uncover the passage and read it again to see how much of the information in the paragraph the student accurately recalled.
- This process is repeated with all paragraphs in the passage.

Classroom Intervention Plan for Jared

Intervention

What to Write: Write a brief description of the intervention(s) to be used with this student. TIP: If you have a script for this intervention, you can just write its name here and attach the script to this sheet.

Mr. Griffin will supervise Jared's use of the Read Actively intervention during independent reading time.

Initially, Mr. Griffin will sit with Jared and coach him in use of the strategy. The goal at the end of the initial 6 weeks is for Jared to use the strategy independently.

- **Progress-Monitoring:** Mr. Griffin decides to collect and evaluate Jared's written retells, using a written-retell rubric. After each reading, Jared writes a retell summarizing key information from the reading. The rubric scores the retell using 4 categories ("General Purpose/Gist"; "Organization", etc.), with each evaluated on 4-point scale—16-point rubric maximum.

At **baseline**, Jared scores an average of 7 points of 16 on the rubric. If the intervention is effective, the teacher expects that Jared's rubric ratings will rise to at least 12 of 16 (a rating of 'Capable').

Sample Retell Rubric

MLPP RETELLING RUBRIC K - 12| INFORMATIONAL TEXT

Qualities of Retelling	4 Mature	3 Capable	2 Developing	1 Beginning
Central Purpose/Gist	Retelling indicates a clear and elaborated understanding of the central purpose of the selection.	Retelling indicates a basic understanding of the central purpose of the selection.	Retelling indicates an incomplete or inaccurate understanding of the central purpose of the selection.	Retelling indicates no understanding of the central purpose of the selection.
Restatement/ Elements	Retelling contains a clear and accurate restatement of important and supporting elements. May contain related prior knowledge.	Retelling contains a clear and accurate restatement of most important and supporting elements.	Retelling lacks important elements and/or contains inaccurate information.	Retelling is minimal and inaccurate .
Organization	Important and supporting elements are logically presented and clearly connected.	Most important and supporting elements are presented logically and connected.	Elements are presented in a random or disconnected order.	There is little or no development of elements.
Linguistic Spillover	Use of language, conventions, and/or format from the selection reflects an elaborated and personalized understanding of the information.	Use of language, conventions, and/or format from the selection indicates basic understanding of the information.	Use of language, conventions, and/or format from the selection may indicate superficial understanding.	Retelling includes little or no use of language, conventions, and/or format from the selection.

Classroom Intervention Plan for Jared

Progress-Monitoring. Select a method to monitor student progress.

Type of Data Used to Monitor:

Written Retells and Informational-Passage Retell

Rubric from www.missionliteracy.com

Baseline	Outcome Goal
Global Rubric Rating: 7/16 pts	Global Rubric Rating: 12/16 pts (6 wks)

How often will data be collected? (e.g., daily, every other day, weekly): Weekly

Problem-Solving in Schools: Telling the Data Story

Teachers will want data to tell a student's intervention story when meeting with:






- **parent** and **student** to develop a plan to improve that student's course standing.
- the building's **RTI/MTSS Problem-Solving Team** to describe classroom intervention efforts.
- the **Section 504 Committee** to discuss whether the supports in a student's current 504 Accommodation Plan are adequate in the classroom.
- the **Special Education Eligibility Team** to review classroom efforts to support a student now being considered for LD.

Classroom Data Collection: The Basics...

Here are important guidelines: Tier 1/classroom data collection methods should:

- **measure skill(s) targeted by the intervention.** The educator wants to know whether the student is improving a specific skill or behavior. The data-collection method is selected to track growth in that skill or behavior.
- **be sensitive to short-term gains.** Progress-monitoring should reveal in weeks—not months— whether the intervention is effective.
- **yield a specific number value.** The teacher selects progress-monitoring tool(s) that can be converted to numeric data—and charted.

Workshop Topics

-  1. **Reviewing 'Big Ideas'.** What are important concepts relating to data collection?
-  2. **Creating a Monitoring Plan.** What are the 7 steps to creating a plan to monitor a student's intervention progress?
-  3. **Data Collection: Behavior.** What tools are best to collect reliable behavioral data?
-  4. **Data Collection: Academics.** How can Curriculum-Based Measurement and other data tools help schools to track academic performance?
-  5. **Documenting Progress-Monitoring Plans.** What is a simple format to put student monitoring plans in writing?

Monitoring Student Progress on Classroom Interventions: Five Big Ideas. These 5 big ideas can help teachers to more effectively and efficiently collect and interpret student data in the classroom ...
pp. 2-3





Monitoring Student Progress on Classroom Interventions: 5 Big Ideas

Teachers collect and interpret multiple streams of classroom data continuously to make ongoing judgments about whether groups or individual learners are understanding instructional content, making adequate progress in coursework, and behaving appropriately. Here are five 'big ideas' about monitoring student progress that can assist teachers in collecting more useful data efficiently and making better decisions about students' response to classroom interventions.

1. **Define the student problem clearly.** Before the teacher can select a method of data collection to monitor student progress, that instructor must first define the academic or behavioral problem clearly (Christ, 2008). Clear definitions of the presenting concern are called 'problem identification [ID] statements'.

Problem ID statements can often be improved by making them more specific and, when appropriate, by adding information about frequency, intensity, or other objective data to clarify the severity of the problem. For example, an instructor may initially come up with this problem ID statement, 'Angela is disruptive in class.' This vague statement can be improved with detail, e.g., 'Angela argues and refuses to comply when given a teacher request.' Similarly, a teacher's concern that 'Sam never turns in homework' can be improved if she consults her gradebook for information about how frequently the student submits work, e.g., 'Sam turns in homework only about 25 percent of the time.'

Table 1 provides examples of how to compose specific, data-based problem-ID statements.

Descriptions needing improvement.	<i>Joshua does not know his math facts.</i> This description is too general: what does it mean to 'know a math fact' and what specific facts does the student not know?	<i>Anne doesn't respect adults.</i> This description is vaguely worded and includes an unnecessary value judgement.
1. Get Specific. Describe behaviors in specific terms without added value judgments.	<i>Joshua does not know his multiplication 0-12 math facts.</i>	<i>Anne often fails to comply with teacher requests.</i>
2. Use Data. Make use of available data (when available) to provide additional information about current student performance.	<i>When shown multiplication 0-12 Scholastic math-fact flash cards for 3 seconds, Joshua can answer 32 of 58 correctly.</i>	<i>When given directives in math class, Anne complies with those directives about 50% of the time.</i>
3. Reframe. State behaviors (when possible) as positive 'goal' statements.	<i>When shown multiplication 0-12 Scholastic math-fact flash cards for 3 seconds, Joshua will answer 58 of 58 correctly [with 95% accuracy].</i>	<i>When given directives in math class, Anne will comply with those directives within 1 minute without argument or complaint at least 90% of the time.</i>

2. **Take full advantage of practical progress-monitoring tools available in the classroom.** There are a range of data-collection methods that teachers can use to track student progress on academic or behavioral interventions, such as grades, rubrics, student interviews, behavior report cards, and checklists. Most of these measures are teacher-made and have the advantage of measuring the student's actual observed behavior or

Handout: pp. 2-3



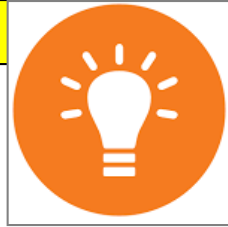
Data Collection: 5 Big Ideas...

- *Define the student problem clearly.* Before selecting a method of data collection to monitor student progress, the teacher must first define the academic or behavioral problem clearly (Christ, 2008). These are called 'problem identification [problem ID] statements'.

Response to Intervention

Table 1: How to Strengthen Descriptions of Academic and Other Behaviors

<p>Descriptions needing improvement.</p> <div data-bbox="127 344 546 444" style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>Handout: p. 2</p> </div>	<p>Joshua does not know his math facts. This description is too general: what does it mean to ‘know a math fact’ and what specific facts does the student not know?</p>	<p>Anne doesn’t respect adults. This description is vaguely worded and includes an unnecessary value judgement.</p>
<p>1. Get Specific. Describe behaviors in specific terms without added value judgments.</p>	<p><i>Joshua does not know his multiplication 0-12 math facts.</i></p>	<p><i>Anne often fails to comply with teacher requests.</i></p>
<p>2. Use Data. Make use of available data (when available) to provide additional information about current student performance.</p>	<p><i>When shown multiplication 0-12 Scholastic math-fact flash cards for 3 seconds, Joshua can answer 32 of 58 correctly.</i></p>	<p><i>When given directives in math class, Anne complies with those directives about 50% of the time.</i></p>
<p>3. Reframe. State behaviors (when possible) as positive ‘goal’ statements.</p>	<p><i>When shown multiplication 0-12 Scholastic math-fact flash cards for 3 seconds, Joshua will answer 58 of 58 correctly [with 95% accuracy].</i></p>	<p><i>When given directives in math class, Anne will comply with those directives within 1 minute without argument or complaint at least 90% of the time.</i></p>

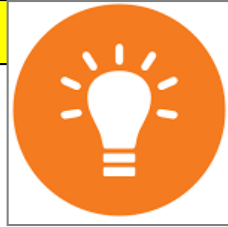


Data Collection: 5 Big Ideas...

- *Take advantage of practical classroom progress-monitoring tools.* Teachers can use lots of data-collection methods to track student progress on academic or behavioral interventions: e.g., grades, rubrics, interviews, behavior report cards, and checklists.

Such 'informal' measures may appear to lack the rigor of more formal norm-referenced assessments. But the reduced stakes of classroom interventions mean that measures used to track success on these general-education interventions can also be less rigorous (Hosp, 2008).

2



Data Collection: 5 Big Ideas...

- *Baseline: Know the student's starting point.* When preparing to monitor a student on intervention, the teacher typically first collects 'baseline' data. The instructor assesses the student's academic or behavioral performance on one or more occasions *before* the intervention starts—and uses this preliminary data to estimate that student's starting point or current level of performance (Hixson, Christ & Bruni, 2014).

Baseline information is also used as a point of comparison throughout the intervention period to judge whether that student has made progress.

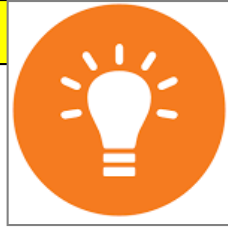
3



Data Collection: 5 Big Ideas...

- *Set an intervention goal.* Before launching an intervention and monitoring progress, the teacher establishes a student outcome goal (Hixson, Christ & Bruni, 2014). To compute this outcome goal, the instructor decides how many instructional weeks the intervention will last and calculates a 'realistic but ambitious' performance goal for the student to meet or exceed by the end of the intervention period.

The intervention goal allows the teacher a simple, unambiguous standard against which to judge the success of the intervention.



Data Collection: 5 Big Ideas...

- *Reduce the 'noise' in the data.* All real-world student performance data contains both real information and an element of error (Hosp, 2008).

Error in measurement is a natural element of data collection and can arise from many sources; e.g., fluctuations in mood and motivation; variability in data collection, scoring, and interpretation; the presence of environmental distractions. Error in data collection is ever-present. Teachers, however, can take action to minimize the 'noise', or 'error', and to maximize the 'signal', or 'true' information, that data contains.

5

Big Ideas in Data Collection: Activity

- Discuss the 5 big ideas presented here (handout: pp. 2-3).
- Pick **one** of the data-collection ideas that you feel is most important for classroom teachers to remember.

InterventionCentral
5-Minute 'Count Down' Timer

05:00

Monitoring Student Progress on Classroom Interventions: Five Big Ideas

1. Define the student problem clearly.
2. Take full advantage of practical progress-monitoring tools available in the classroom
3. Baseline: Know the student's starting point.
4. Set an intervention goal.
5. Reduce the 'noise' in the data.

*Monitoring
Intervention
Progress.* What
recommendations
can help schools to
better track
progress on Tier 2
interventions?



Progress-Monitoring: Big Picture or Close-Up?



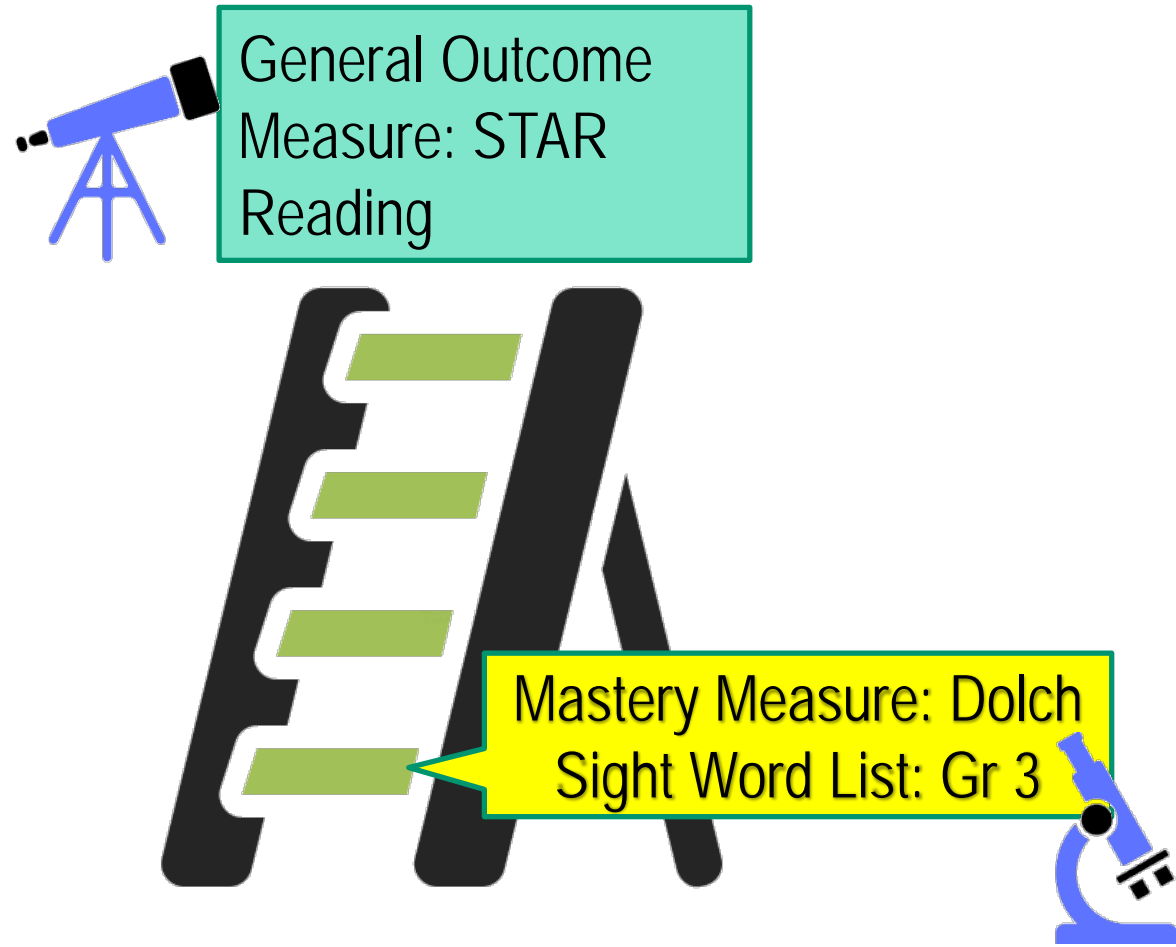
TELESCOPE: General Outcome Measures: Global 'capstone' assessments requiring that the student apply several skills at once (e.g., fluency with text; math problem-solving). STAR Reading is an example.



MICROSCOPE: Mastery Measures. Discrete, targeted assessments to track easily identified sets or domains of items typically mastered over a relatively short period. Sight-word lists and timed letter-naming assessments are examples.



Mastery Measures Contribute to General Outcome Measure...Over Time



Mastery Measures: Collect Data on the 'Obstacle' to Success

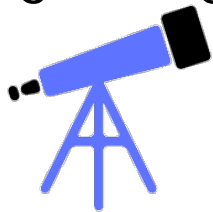
To develop a classroom intervention plan, the teacher must first identify some element of the student's current academic performance or behavior that presents an **obstacle** to success.

Once identified, this obstacle becomes the focus on the intervention plan. It also becomes the focus in selecting **short-term mastery measure(s)** to track student progress.

Tier 2 Progress-Monitoring: A 'Twin-Track' Approach...

When possible, Tier 2 interventions should be monitored using short-term mastery measures.

Optionally, the teacher may also review standard 'general outcome measure' grade-level assessments already in place (e.g., instructional reading assessments, grades, screener) to note global gains in student academic skills.



General Outcome Measure 1: STAR



General Outcome Measure 2: STAR



Mastery Measure: Dolch Sight Words 1



Mastery Measure: Dolch Sight Words 1



Mastery Measure: Dolch Sight Words 1



Mastery Measure: Dolch Sight Words 1

How to Monitor Basic Academic Skills: Curriculum-Based Measurement (CBM)



Classroom Data Tool: Curriculum-Based Measurement/Assessment

- **What It Is:** A series of brief measures of basic academic skills given under timed conditions and scored using standardized procedures.

CBM/CBA measures often include research-derived benchmark norms to assist in evaluating the student's performance.

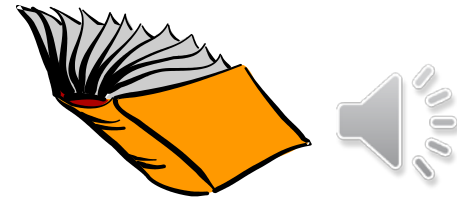
Classroom Data Tool: Curriculum-Based Measurement/Assessment

- **What It Can Measure:**

- Speed and accuracy in basic academic skills, such as:
 - letter naming: 1 min
 - number naming: 1 min
 - number sense: 1 min
 - oral reading fluency: 1 min
 - reading comprehension (maze): 3 mins
 - production of writing: 3 mins
 - math fact computation: 2 mins

Fluency Example: CBM Student Reading Samples: What Difference Does Fluency Make?

- *3rd Grade: 19 Words Per Minute*
- *3rd Grade: 70 Words Per Minute*
- *3rd Grade: 98 Words Per Minute*



DIBELS: A Reading Assessment Toolkit




There are a variety of measurement products on the market that have been designed using CBM research.

The example presented here is a widely-used battery of fluency assessments for reading called DIBELS Next: <https://dibels.org/dibelsnext.html>. (DIBELS stands for **D**ynamic **I**ndicators of **B**asic **E**arly **L**iteracy **S**kills.)

NOTE: DIBELS is being renamed Acadience Learning.

DIBELS Next is a well-researched collection of 6 CBM-type assessments available to teachers at no cost to download, print, and use with their students. There are enough materials to monitor students weekly.

Acadience: <https://acadiencelearning.org/>



The header of the Acadience Learning website features a blue background with a white navigation bar. On the left is the logo for the Dynamic Measurement Group, which consists of two stylized faces (one blue, one green) and an open book. To the right of the logo, the text "DYNAMIC MEASUREMENT GROUP" is displayed in white. Further right, the text "HOME OF ACADIENCE" is written in a large, spaced-out, white font. The navigation bar includes links for "About DMG", "Mentors' Network", "Professional Development", "Accessories", and "Contact Us".

What is Acadience?

Meet the Authors

Assessments

- Acadience Reading
- Acadience Math
- DIBELS Next Survey
- DIBELS Deep
- PELI (Pre-K)
- CARI (7-9)

Acadience Reading

Previously published under the name DIBELS Next®

The same assessment you know and trust from the authors of DIBELS® 6th edition and DIBELS Next® is coming together with our entire family of assessments and educational tools under a new name: Acadience™

Acadience™ Reading is an assessment used to measure the acquisition of early literacy skills from kindergarten through sixth grade.

Questions? We're here to help.

Call us at 888-943-1240 (Toll-Free) or email info@acadiencelearning.org. For more information about our new name, read [About Our New Name](#).

1. **Phonemic Awareness:**
The ability to hear and manipulate sounds in words.

2. **Alphabetic Principle:** The ability to associate sounds with letters and use these sounds to form words.

3. **Fluency with Text:** The effortless, automatic ability to read words in connected text.

4. **Vocabulary:** The ability to understand (receptive) and use (expressive) words to acquire and convey meaning.

5. **Comprehension:** The complex cognitive process involving the intentional interaction between reader and text to convey meaning.

Five Components of Reading



DIBELS Next Reading Assessments

- First Sound Fluency: Phonemic Awareness
- Letter Naming Fluency: Alphabetsics/Phonics
- Phoneme Segmentation Fluency:
Alphabetsics/Phonics
- Nonsense Word Fluency: Alphabetsics/Phonics
- DIBELS Oral Reading Fluency (DORF)
- DIBELS Maze Passages (DAZE):
Comprehension

How to Track Classroom Reading Interventions

DIBELS Next Literacy Fluency Measures

Measure	Reading Component(s) Assessed	Time to administer	Grade Range/Screening
<p>First Sound Fluency (FSF). The examiner reads words aloud from a list. The student says the first sound for each word.</p>	<p>Phonemic Awareness</p> <div style="border: 1px solid red; padding: 5px; display: inline-block; margin-top: 20px;">drop</div>	1 minute	<ul style="list-style-type: none"> Kdg: Fall & Winter screenings

How to Track Classroom Reading Interventions

DIBELS Next Literacy Fluency Measures

Measure	Reading Component(s) Assessed	Time to administer	Grade Range/Screening																						
<p>Letter Naming Fluency (LNF). The student reads aloud the names of letters from a sheet with randomly arranged letters.</p>	Alphabetic Principle/ Phonics	1 minute	<ul style="list-style-type: none"> • Kdg: All year • Grade 1: Fall screening 																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding: 5px;">I</td> <td style="padding: 5px;">T</td> <td style="padding: 5px;">u</td> <td style="padding: 5px;">J</td> <td style="padding: 5px;">V</td> <td style="padding: 5px;">s</td> <td style="padding: 5px;">O</td> <td style="padding: 5px;">i</td> <td style="padding: 5px;">x</td> <td style="padding: 5px;">p</td> <td style="padding: 5px;">W</td> </tr> <tr> <td style="padding: 5px;">M</td> <td style="padding: 5px;">Q</td> <td style="padding: 5px;">y</td> <td style="padding: 5px;">n</td> <td style="padding: 5px;">k</td> <td style="padding: 5px;">d</td> <td style="padding: 5px;">D</td> <td style="padding: 5px;">t</td> <td style="padding: 5px;">e</td> <td style="padding: 5px;">l</td> <td style="padding: 5px;">c</td> </tr> </tbody> </table>				I	T	u	J	V	s	O	i	x	p	W	M	Q	y	n	k	d	D	t	e	l	c
I	T	u	J	V	s	O	i	x	p	W															
M	Q	y	n	k	d	D	t	e	l	c															

How to Track Classroom Reading Interventions

DIBELS Next Literacy Fluency Measures

Measure	Reading Component(s) Assessed	Time to administer	Grade Range/ Screening
<p>Phoneme Segmentation Fluency (PSF). The examiner reads words aloud from a list. The student says the individual sounds making up each word.</p>	<p>Phonemic Awareness</p> <div data-bbox="664 1086 1004 1285" style="border: 1px solid red; padding: 10px; text-align: center; margin: 10px auto; width: fit-content;"> <p>flag</p> </div>	1 minute	<ul style="list-style-type: none"> • Kdg: Winter & Spring screenings • Grade 1: Fall screening

How to Track Classroom Reading Interventions

DIBELS Next Literacy Fluency Measures

Measure	Reading Component(s) Assessed	Time to administer	Grade Range/Screening
<p>Nonsense Word Fluency (NWF). The student reads aloud from a list of VC and CVC nonsense words.</p>	Alphabetic Principle/ Phonics	1 minute	<ul style="list-style-type: none"> • Kdg: Winter & Spring screenings • Grade 1: All year • Grade 2: Fall screening

m u s

a v

w e c

m i v

d o p

How to Track Classroom Reading Interventions

DIBELS Next Literacy Fluency Measures

Measure	Reading Component(s) Assessed	Time to administer	Grade Range/Screening
<p>DIBELS Oral Reading Fluency (DORF). The student reads aloud from a text passage and is then asked to retell the main details of the reading.</p>	Reading Fluency	1 minute for initial reading; 1 minute for student retell	<ul style="list-style-type: none"> • Grade 1: Winter & Spring Screenings • Grades 2-6: All year

DIBELS NEXT
Example: DORF

Total words: _____
Errors (include skipped words): - _____
Words correct: = _____

The Land Bridge

0	During the last ice age, the world looked much different than it does	13
13	today. Nearly all the land was covered with huge sheets of ice or glaciers.	27
27	Most of the world's water was trapped in these glaciers, and the water	40
40	level of the seas was low. A vast amount of land was above the water.	55
55	The narrow waterway between Asia and North America, the Bering	65
65	Strait, was mostly exposed land at that time. The land formed a narrow	78
78	bridge that connected Asia with North America. This land bridge was	89
89	cold and flat, and was covered by grass and shrubs. Before the formation	102
102	of the land bridge, early people who wanted to travel to North America	115
115	had to go by boat. Very few people actually made the voyage over the	129
129	water. Many more people traveled to North America when they were able	141

How to Track Classroom Reading Interventions

DIBELS Next Literacy Fluency Measures

Measure	Reading Component(s) Assessed	Time to administer	Grade Range/ Screening
Daze. The student is given a Maze passage to read silently. For each response item, the student reviews 3 choices and selects the word that best completes the meaning of that part of the passage.	Reading Comprehension	3 minutes	<ul style="list-style-type: none"> • Grades 3-6: All year

DIBELS NEXT Example: DAZE

Taking Great Nature Photographs

Many people love looking at a beautiful landscape or at waves crashing into rocks on a

wind-swept beach. They may want to capture a **distant** **need** **bit** of it on camera in order to **share** **blur** **how** it with others. Because the subject **is** **remember** **when** so beautiful, they think, "This is **rather** **whole** **sure** to be a wonderful photograph!"

However, **pictures** **taking** **puddle** a good nature photograph can be **tricky** **shooting** **majestic**. If you're not careful, a majestic

will **help** **mountain** may look like a distant pebble. **Wind** **Crashing** **Placing** waves can easily become a gray **vibrant** **light** **blur**, with

Lab Work: Create a Tier 1/ Classroom Data-Collection 'Bank'



Teachers need easy access to methods to collect data on interventions.

Discuss how your school(s) might develop a bank of data-collection tools for teachers.

Important Qs:

- Who would participate in this project?
- How would data-collection resources be stored and shared with others?
- What is a timeline for getting a data-collection bank into the hands of teachers in your school(s)?



Curriculum-Based Measures (CBMs) from Intervention Central

<i>CBM</i>	<i>Skill Area</i>	<i>Activity</i>
Letter Sound Fluency/Letter Name Fluency	Alphabetics/ Phonics	1 Minute: Student reads letter names or sounds from a randomly generated list .
Oral Reading Fluency	Reading Fluency	1 Minute: Student reads aloud from a text passage .
Reading Comprehension Fluency (Maze)	Reading Comprehension	3 Minutes: Student reads silently from a Maze passage and selects correct word in each choice item that restores meaning to the passage.
Early Math Fluency	Number Sense	1 Minute: Student completes an Early Math Fluency probe: (1) Quantity Discrimination; (2) Missing Number; or (3) Number Identification
Computation Fluency	Math Fact Fluency	2 Minutes: Student completes math facts and receives credit for each correct digit .
Written Expression	Mechanics/ Conventions of Writing	4 Minutes: Student reads a story-starter (sentence stem), then produces a writing sample that can be scored for Total Words Written, Correctly Spelled Words, Correct Writing Sequences .

CBM: Letter Knowledge

- The ability of young children to identify letter names and sounds quickly and accurately gives information about their phonics/alphabetic skills, which are necessary tools for reading.

Five Core Components of Reading

- “Phonemic Awareness: The ability to hear and manipulate sounds in words.
- **Alphabetic Principle: The ability to associate sounds with letters and use these sounds to form words.**
- Fluency with Text: The effortless, automatic ability to read words in connected text.
- Vocabulary: The ability to understand (receptive) and use (expressive) words to acquire and convey meaning.
- Comprehension: The complex cognitive process involving the intentional interaction between reader and text to convey meaning.”

Response to Intervention

- **Letter Knowledge: Letter Name Fluency (LNF) [1 minute]:**
The student is given a random list of upper- and lower-case letters and identifies the names of as many letters as possible.

Curriculum-Based Measurement: Letter Name Fluency (LNF) Norms (Riverside, 2013)*

In the CBM-Letter Name Fluency (LNF) task, the student is given a random list of upper- and lower-case letters and has 1 minute to identify the names of as many letters as possible.

Grade	Percentile	Fall LNF (Riverside, 2013)	Winter LNF (Riverside, 2013)	Spring LNF (Riverside, 2013)	Weekly Growth (Calculated across 32 Instructional Wks)
K	50%ile	19	35	45	0.81
	20%ile	5	22	36	0.97
	10%ile	2	13	29	0.84
1	50%ile	40	56	68	0.88
	20%ile	28	42	49	0.66
	10%ile	20	34	42	0.69

Letter Name/Sound Fluency Probe Generator

<http://www.interventioncentral.org>

Use this free online application to design and create Letter Name and Letter Sound Fluency Probes.

Letter Naming Fluency Probe Generator

* Indicates a required field

Alphabet

English ▾

Letter Case

Lowercase ▾

Font Family

Helvetica ▾

Font Size

14 ▾

Total number of letters to appear in the probe* (Max: 400)

100

Add letters as needed to fill out final line of probe

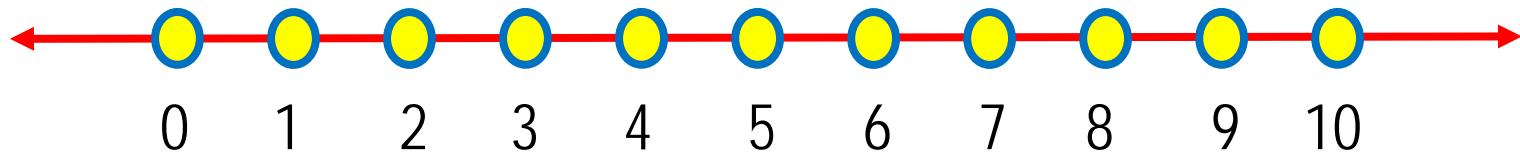
Name of this list (?)

Download PDF

Email PDF

CBM: Early Math Fluency: Measuring 'Number Sense'

- Early Math Fluency measures track primary-grade students' acquisition of number sense (defined as mastery of internal number line)



- **Early Math Fluency: Quantity Discrimination [1 minute]:**
The student is given a worksheet with number pairs and, for each pair, identifies the larger of the two numbers.

4	12
----------	-----------

Quantity Discrimination (QD): 1 Minute: The student is presented with pairs of numbers randomly sampled from 1-20 and must identify the larger number in each pair.

Grade	Fall QD (Chard et al., 2005)	Fall: +/-1 SD (≈16th%ile to 84th%ile)	Winter QD (Chard et al., 2005)	Winter: +/-1 SD (≈16th%ile to 84th%ile)	Spring QD (Chard et al., 2005)	Spring: +/-1 SD (≈16th%ile to 84th%ile)	Weekly Growth
K	15	8↔22	20	8↔32	23	12↔34	0.25
1	23	16↔30	30	21↔39	37	28↔46	0.44

- **Early Math Fluency: Missing Number [1 minute]:** The student is given a worksheet with 4-digit number series with one digit randomly left blank and, for each series, names the missing number.

14 _ 16 17

Missing Number (MN): 1 Minute: The student is presented with response items consisting of 3 sequential numbers with one of those numbers randomly left blank. (Each 3-number series is randomly generated from the pool of numbers 1-20.) The student attempts to name the missing number in each series.

Grade	Fall MN (Chard et al., 2005)	Fall: +/-1 SD (≈16th%ile to 84th%ile)	Winter MN (Chard et al., 2005)	Winter: +/-1 SD (≈16th%ile to 84th%ile)	Spring MN (Chard et al., 2005)	Spring: +/-1 SD (≈16th%ile to 84th%ile)	Weekly Growth
K	3	0↔7	10	3↔17	14	7↔21	0.34
1	9	3↔15	17	11↔23	20	14↔26	0.34

- **Early Math Fluency: Number Identification [1 minute]:** The student is given a worksheet randomly generated numbers and reads off as many as possible within the time limit.

34 37 50 38 1

Number Identification (NID): 1 Minute: The student is presented with a randomly generated series of numbers ranging from 1-20 and names as many of those numbers aloud as time allows.

Grade	Fall NID (Chard et al., 2005)	Fall: +/-1 SD (≈16th%ile to 84th%ile)	Winter NID (Chard et al., 2005)	Winter: +/-1 SD (≈16th%ile to 84th%ile)	Spring NID (Chard et al., 2005)	Spring: +/-1 SD (≈16th%ile to 84th%ile)	Weekly Growth
K	14	0↔28	45	27↔63	56	38↔74	1.31
1	34	18↔50	53	36↔70	62	46↔78	0.88

The application to create CBM Early Math Fluency probes online

Quantity Discrimination (QD)

Description: The student is given a sheet of number pairs and must verbally identify the larger of the two values for each pair.

Select the *lowest* and *highest* numbers to be selected in the quantity-discrimination items:

FROM 0

TO 20


How many quantify discrimination items should appear *in each row*?:


3 items

How many *rows* of items should appear on the student worksheet?:

8

Submit

 **QD Directions:** Download directions for administering and scoring *Quantity Discrimination* probes, test statistics, & brief guidelines for use in an RTI process

 **QD Graph:** Access a time-series graph to chart student progress using *Quantity Discrimination* probes

Missing Number (MN)

Description: The student is given a sheet that contains a series of 3- or 4-number sequences. In each sequence, one number is missing. The student must verbally identify the missing number.

Select the *lowest* and *highest* numbers to be selected in the missing number items:

FROM 0

TO 20

How many missing number items should appear *in each row*?:

3 items

How many numbers should appear in *each number series*?:

3

items

Numberfly Early Math Fluency Generator

<http://www.interventioncentral.org>

Use this free online application to design and create Early Math Fluency Probes, including:

- Quantity Discrimination
- Missing Number
- Number Identification

CBM: Math Computation Fluency

- Students should have fluent recall of basic-operation math facts to prepare them for demanding math courses in middle and high school.

Benefits of Automaticity of 'Arithmetic Combinations'

(Gersten, Jordan, & Flojo, 2005)

- There is a strong correlation between poor retrieval of arithmetic combinations ('math facts') and global math delays
- Automatic recall of arithmetic combinations frees up student 'cognitive capacity' to allow for understanding of higher-level problem-solving
- By internalizing numbers as mental constructs, students can manipulate those numbers in their head, allowing for the intuitive understanding of arithmetic properties...

Source: Gersten, R., Jordan, N. C., & Flojo, J. R. (2005). Early identification and interventions for students with mathematics difficulties. *Journal of Learning Disabilities, 38*, 293-304.

- **Math Computation Fluency** [2 minutes]: The student is given a math-fact worksheet and completes as many problems as possible. The worksheet is scored for number of correct digits.

Example: Student Worksheet

$$\begin{array}{r} 62 \\ \times 11 \\ \hline \end{array}$$

Example: Answer Key

$$\begin{array}{r} 62 \\ \times 11 \\ \hline 62 \\ 62- \\ \hline 682 \end{array}$$

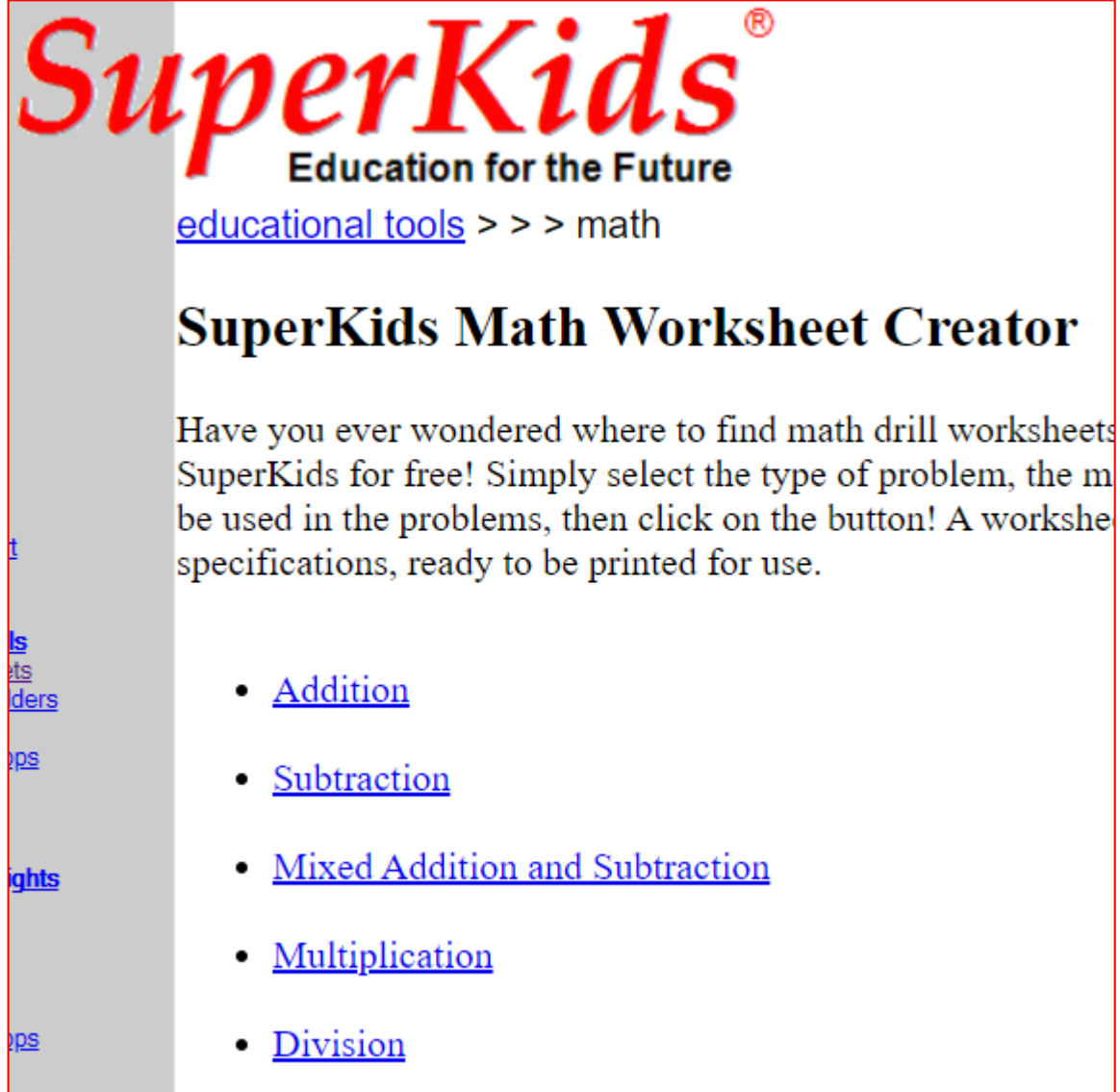
- **Math Computation Fluency** [2 minutes]: The student is given a math-fact worksheet and completes as many problems as possible. The worksheet is scored for number of correct digits.

Curriculum-Based Measurement: Math Computation (Adapted from Deno & Mirkin, 1977)	
Grade	Digits Correct in 2 Minutes
1-3	Frustration 20 or less
	Instructional 21-40
	Mastery 41 or higher
4 & Up	Frustration 40 or less
	Instructional 41-80
	Mastery 81 or higher
<p>Comments: These math computation norms are still widely referenced. They are best regarded as a rough indicator of 'typical' student math computation skills.</p>	

Superkids.com Math Worksheet Generators

[http://www.superkids.com/aweb/
tools/math/](http://www.superkids.com/aweb/tools/math/)

Use this free online application to
create CBM timed worksheets for
basic math facts.



SuperKids[®]
Education for the Future
[educational tools](#) > > > math

SuperKids Math Worksheet Creator

Have you ever wondered where to find math drill worksheets SuperKids for free! Simply select the type of problem, the number of problems to be used in the problems, then click on the button! A worksheet is generated with the specifications, ready to be printed for use.

- [Addition](#)
- [Subtraction](#)
- [Mixed Addition and Subtraction](#)
- [Multiplication](#)
- [Division](#)

Mechanics & Conventions of Writing

- Tracking student growth in emerging writing skills can be confusing and time-consuming for teachers.

However, Curriculum-Based Measurement-Written Expression (CBM-WE) is an efficient, reliable method of formative student assessment that yields numeric indicators that are instructionally useful--such as total words written, correctly spelled words, and correct writing sequences.



Student Name: _____ Classroom: _____ Date: _____

One day, I was in my boat and a storm came up and carried me to a desert island. To survive...

Multiple horizontal lines for writing the response.

CBM-Written Expression: Sample Story Starter

Total Words: ____ Correctly Spelled Words: ____ Correct Writing Sequence: ____

Source: Writing Probe Generator. Available at <http://www.interventioncentral.org/teacher-resources/curriculum-based-measurement-probes-writing>

CBM Writing Assessment: Scoring

Total Words:

I woud drink water from the ocean and I woud eat the fruit off of the trees. Then I woud bilit a house out of trees, and I woud gather firewood to stay warm. I woud try and fix my boat in my spare time.

Total Words = 45

- **CBM-WE: Total Words Written [4 Minutes]**. The student's writing sample is scored for the total words written.

Total Words Written (TWW): This measure is a count of the total words written during the CBM-WE assessment.

Grade	Fall TWW (Malecki & Jewell, 2003)	Fall: +/-1 SD (≈16th%ile to 84th%ile)	Spring TWW (Malecki & Jewell, 2003)	Spring: +/-1 SD (≈16th%ile to 84th%ile)	Weekly Growth (Tadatada, 2011)
1	8	3↔13	14	7↔21	0.45
2	24	14↔34	31	19↔43	0.43
3	36	23↔49	36	24↔48	0.35
4	41	30↔52	46	30↔62	0.25
5	51	34↔68	67	43↔91	--
6	44	31↔57	58	44↔72	--

CBM Writing Assessment: Scoring Correctly Spelled Words:

I **woud** drink water from the ocean
and I **woud** eat the fruit off of the
trees. Then I **woud** **bilit** a house
out of trees, and I **woud** gather
firewood to stay warm. I **woud** try
and fix my boat in my spare time.

Correctly Spelled Words = 39

- CBM-WE: Correctly Spelled Words [4 Minutes]**. The student's writing sample is scored for the number of words spelled correctly.

Correctly Spelled Words (CSW): This measure is a count of correctly spelled words written during the CBM-WE assessment.					
Grade	Fall CSW (Malecki & Jewell, 2003)	Fall: +/-1 SD (≈16th%ile to 84th%ile)	Spring CSW (Malecki & Jewell, 2003)	Spring: +/-1 SD (≈16th%ile to 84th%ile)	Weekly Growth (Tadatada, 2011)
1	5	1↔9	10	3↔17	0.45
2	20	10↔30	27	15↔39	0.46
3	32	19↔45	33	21↔45	0.37
4	38	26↔50	44	29↔59	0.26
5	48	31↔65	65	42↔88	--
6	42	29↔55	56	41↔71	--

CBM Writing Assessment: Scoring

Correct Writing Sequences:

I *woud* drink water from the ocean
and I *woud* eat the fruit off of the
trees. Then I *woud bilit* a house
out of trees, and I *woud* gather
firewood to stay warm. I *woud* try
and fix my boat in my spare time.

Correct Writing Sequences = 37

Response to Intervention

- **CBM-WE: Correct Writing Sequences [4 Minutes]**. A point is scored whenever two adjacent units of writing (e.g., two words appearing next to each other) are correct in punctuation, capitalization, spelling, and syntactical and semantic usage.)

Correct Writing Sequences (CWS): This measure is a tabulation of correct 'writing sequences' written during the CBM-WE assessment. One Correct Writing Sequence is scored whenever two adjacent units of writing (e.g., two words appearing next to each other) are found to be correct in their punctuation, capitalization, spelling, and syntactical and semantic usage.

Grade	Fall CWS (Malecki & Jewell, 2003)	Fall: +/-1 SD (≈16th%ile to 84th%ile)	Spring CWS (Malecki & Jewell, 2003)	Spring: +/-1 SD (≈16th%ile to 84th%ile)	Weekly Growth (Tadatada, 2011)
1	2	0↔4	7	1↔13	0.36
2	15	5↔25	24	11↔37	0.44
3	28	14↔42	31	18↔44	0.35
4	38	25↔51	42	26↔58	0.22
5	46	28↔64	63	40↔86	--
6	41	27↔55	54	37↔71	--

Source: Gansle, K. A., VanDerHeyden, A. M., Noell, G. H., Resetar, J. L., & Williams, K. L. (2006). The technical adequacy of curriculum-based and rating-based measures of written expression for elementary school students. *School Psychology Review, 35*, 435-450.

INTERVENTION CENTRAL
Your source for RTI resources

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Writing Probe Generator

If you have any suggestions or comments about this tool, please mail me.

[Response to Intervention](#) Track, Document, Monitor & Manage RTI Data Made Easy [www.RTIinClass.com](#)
[Intervention Specialist](#) Family Addiction Intervention. Don't wait for bottom: [\(800\) 835-3225/2965](#) [FamilyFirstIntervention.com](#)
[Complete Solution for RTI](#) Benchmark and Targeted Assessments Online or Paper, Districtwide [www.bluefishbenchmarking.com](#)
[Common Core Activities](#) Online Tests, Lessons, and More! Reading, Writing, Math Content [www.easy2Online.com](#) [Add Choices >](#)

Written Expression Probe Generator

Curriculum-Based Measurement Written Expression probes are brief, timed (4-minute) assessments that look at a student's mastery of writing mechanics and conventions. The student is given a 'story starter', a brief introductory story stem that serves as a stimulus for the student to create his or her own writing sample.

Written expression probes can be used at any grade level in which students are still working on such writing skills as punctuation, grammar, spelling, and capitalization. They can also be administered to individual students or entire groups. NOTE: You can download instructions for administering and scoring CBM Written Expression probes by clicking [here](#).

Directions: You can use this application to generate your own custom CBM Written Expression Story Starter to use immediately with your student(s). Just follow these steps:

1. **Select a title [optional].** You can give your story starter sheet a custom title (e.g., 'Jim's Writing Sample: October 24, 2011') by typing your title into the textbox 'Select a title for this worksheet' below.
2. **Select or write a story starter.** Enter a story starter of your choosing into the textbox 'Type in the story starter' below. Of course, you can write your own story starter. Or you can click on any of the pre-formatted story starters on the right side of the page and that story starter will automatically load into the text box for you to edit as needed.
3. **Download and view the Writing Probe Sheet.** When you have finished formatting your writing probe, you can download and view it in pdf format by clicking on the 'Download PDF' button.
4. **Email the Writing Probe Sheet [optional].** As a convenience, this application allows you to email your finished Writing Probe Sheet to whomever you choose by clicking on the 'Email PDF' button and following directions to enter your own email address as well as that of the intended recipient.

Select a title for this worksheet [optional]

Type in the 'story starter'
 The zookeeper noticed that the cage was open and...

Click on the 'story starter' you wish to use.
 < previous 1 2 next >

1. In the morning, I opened my door and saw five horses standing in the street. Then...
2. When the snow storm began, the lights went out just before...
3. The boy was on his way to see the dinosaur in the museum when...
4. When the woman looked out her window one morning, she saw that a large meteorite from...

Writing Probe Generator

Create a probe to assess the mechanics and conventions of student writing.

URL: <http://www.interventioncentral.org/tools/writing-probe-generator>

Curriculum-Based Measures (CBMs) from Intervention Central

<i>CBM</i>	<i>Skill Area</i>	<i>Activity</i>
Letter Sound Fluency/Letter Name Fluency	Alphabetics/ Phonics	1 Minute: Student reads letter names or sounds from a randomly generated list.
Oral Reading Fluency	Reading Fluency	1 Minute: Student reads aloud from a text passage.
Reading Comprehension Fluency (Maze)	Reading Comprehension	3 Minutes: Student reads silently from a Maze passage and selects correct word in each choice item that restores meaning to the passage.
Early Math Fluency	Number Sense	1 Minute: Student completes an Early Math Fluency probe: (1) Quantity Discrimination; (2) Missing Number; or (3) Number Identification
Computation Fluency	Math Fact Fluency	2 Minutes: Student completes math facts and receives credit for each correct digit.
Written Expression	Mechanics/ Conventions of Writing	4 Minutes: Student reads a story-starter (sentence stem), then produces a writing sample that can be scored for Total Words Written, Correctly Spelled Words, Correct Writing Sequences.

InterventionCentral
5-Minute 'Count Down' Timer
05:00
www.interventioncentral.org

Curriculum-Based Measures (CBMs) from Intervention Central

<i>CBM</i>	<i>Skill Area</i>	<i>Activity</i>
Letter Sound Fluency/Letter Name	Alphabetics/Phonics	1 Minute: Student reads letter names or sounds from a randomly generated list

Curriculum-Based Measurement: Activity

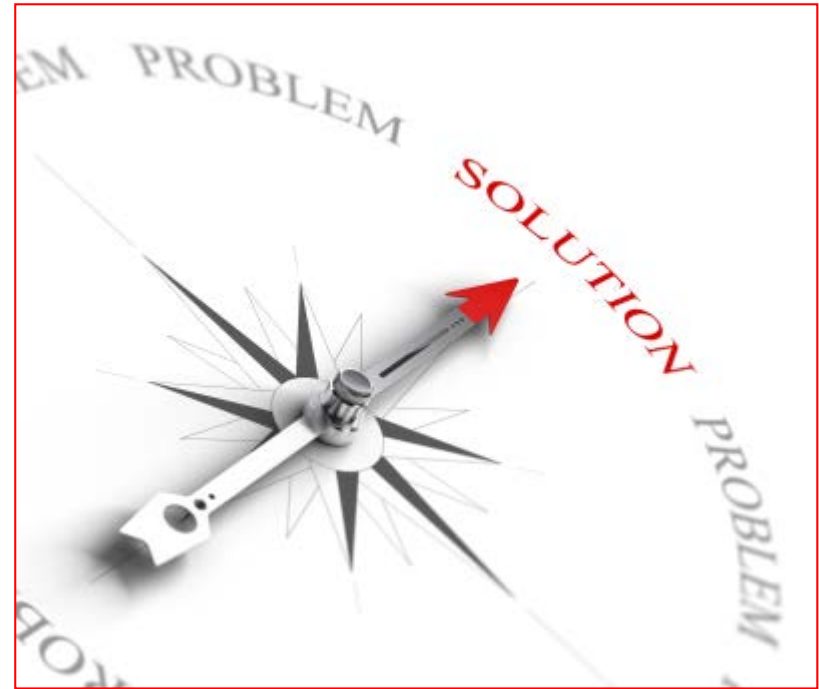
At your tables:

- Select a CBM reviewed at today's training that you are interested in using back at your school.
- Discuss how you might use that CBM in your own instruction or share with teachers.

Be prepared to report out.

	Fluency	credit for each correct digit.
Written Expression	Mechanics/Conventions of Writing	4 Minutes: Student reads a story-starter (sentence stem), then produces a writing sample that can be scored for Total Words Written, Correctly Spelled Words, Correct Writing Sequences.

How to Monitor Student Progress on Tier 1/Classroom Interventions



How to Monitor Student Progress on Tier 1/Classroom Interventions pp. 12-20



How to Monitor Student Progress on Tier 1/Classroom Interventions

If you are a teacher who wants to put a classroom academic or behavioral intervention plan in place for a struggling student, you will want to collect data on that intervention so that you can judge its effectiveness. After all, no one wants to commit time and effort to an intervention that is ineffective.

Your goal of interventions in Tier 1 (general-education instructional settings) is to provide academic and/or behavioral support that will allow your target student to be successful in core instruction. The kinds of data that you choose to monitor that student's progress will, of course, depend on what you wish to measure. However, any assessment that you choose should be a valid measure of the behavior or academic skill that is the focus of the intervention, able to accurately record short-term student gains, and feasible to collect in a busy classroom.

This article walks you through a 7-step process to create and carry out a plan to monitor student progress for any teacher-created classroom intervention:

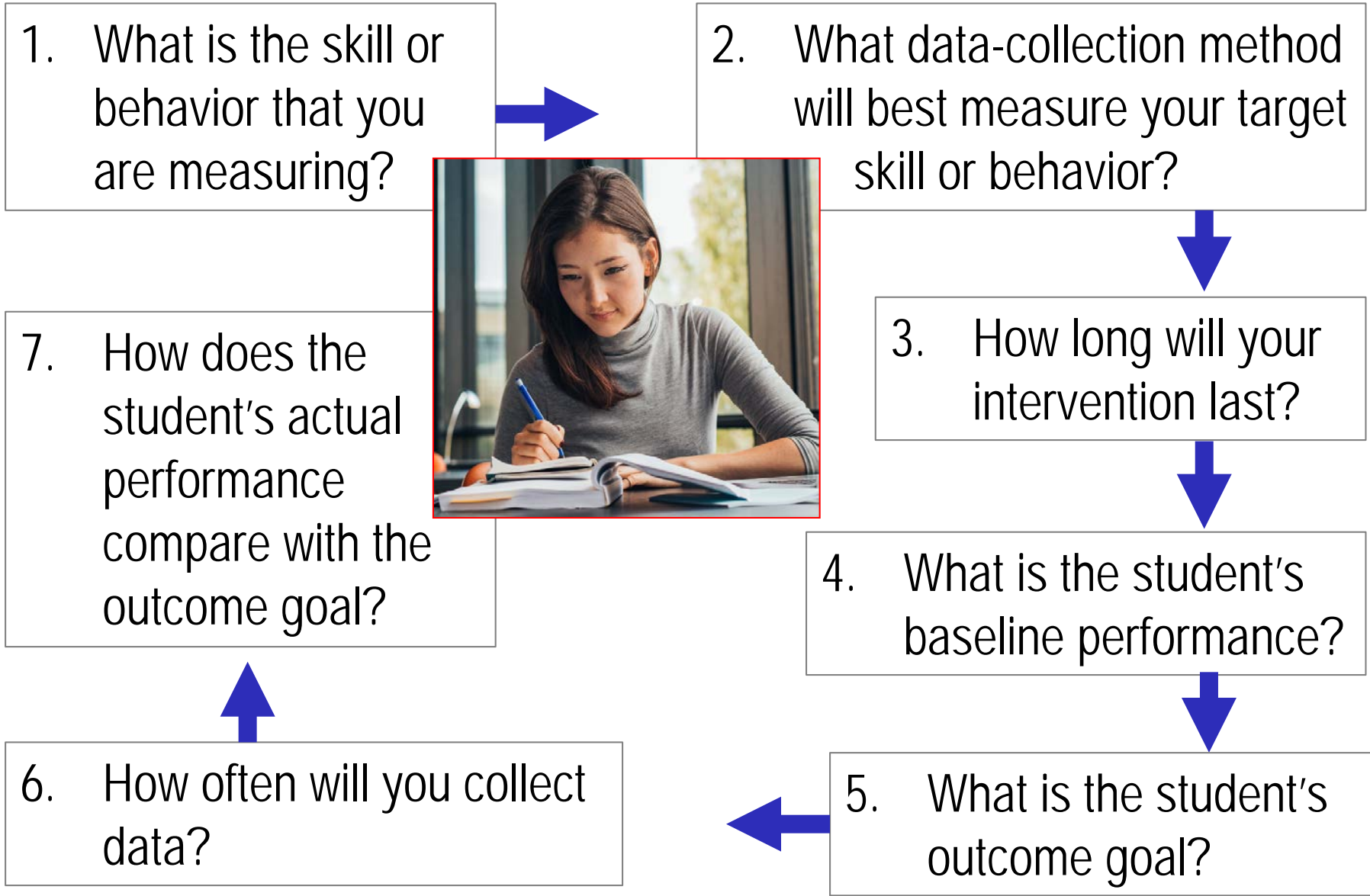
STEP 1: What is the skill or behavior that you are measuring? The initial step in setting up your plan to monitor a student is to choose a specific skill or behavior to measure. This 'problem-identification' statement should define the skill or behavior in clear, specific terms. Here are some examples:

Problem-Identification Statements: Examples
HOMEWORK. Russell does not turn in homework.
WRITING. Andrea's writing includes many incomplete sentences.
MATH FACTS. Rick is not fluent in multiplication math facts.
BEHAVIOR. Angela is inattentive in large-group instruction.

STEP 2: What data-collection method will best measure your target skill or behavior? Your next objective is to select a valid, reliable, and manageable way to collect data on the skill or behavior that you have targeted for intervention. You have a range of data-collection tools to choose from, such as rubrics, checklists, Daily Behavior Report Cards (DBRC), Curriculum-Based Measures (CBMs), teacher logs, etc. Here are examples of data collection methods selected to match specific student problems:

Data Collection Methods: Examples	
Problem ID Statement	Sample Data Tool
HOMEWORK. Russell does not turn in homework.	Homework log
WRITING. Andrea's writing includes many incomplete sentences.	Writing Sample: Compute percentage of complete sentences.
MATH FACTS. Rick is not fluent in multiplication math facts.	Curriculum-based measurement: 2-minute math computation worksheets in 0-12 multiplication
BEHAVIOR. Angela is inattentive in large-group instruction.	Daily Behavior Report Card

Creating a Classroom Progress-Monitoring Plan: 7 Steps





How to Monitor Classroom Interventions

STEP 1: What is the skill or behavior that you are measuring? The initial step in setting up your plan to monitor a student is to choose a specific skill or behavior to measure.

This 'problem-identification' statement should define the skill or behavior in clear, specific terms.

Problem-Identification Statements: Examples

HOMEWORK. Russell does not turn in homework.

WRITING. Andrea's writing includes many incomplete sentences.

MATH FACTS. Rick is not fluent in multiplication math facts.

BEHAVIOR. Angela is inattentive in large-group instruction.



How to Monitor Classroom Interventions

STEP 2: What data-collection method will best measure your target skill or behavior? Your next objective is to select a valid, reliable, and manageable way to collect data on the skill or behavior that you have targeted for intervention. (For a list of assessment tools, see handout; pp. 4-6)

Data Collection Methods: Examples	
<i>Problem ID Statement</i>	<i>Sample Data Tool</i>
HOMEWORK. Russell does not turn in homework.	Homework log
WRITING. Andrea's writing includes many incomplete sentences.	Writing Sample: Compute percentage of complete sentences.
MATH FACTS. Rick is not fluent in multiplication math facts.	Curriculum-based measurement: 2-minute math computation worksheets in 0-12 multiplication
BEHAVIOR. Angela is inattentive in large-group instruction.	Daily Behavior Report Card



How to Monitor Classroom Interventions

STEP 3: How long will your intervention last? When planning your classroom intervention, you should determine an end-date when you can review your progress-monitoring data and decide whether the intervention is successful. A good practice is to run your intervention for at least 6-8 instructional weeks before evaluating its effectiveness.





How to Monitor Classroom Interventions

STEP 4: What is the student's baseline performance?

Before launching your intervention, you will first use your selected data-collection tool to record baseline data reflecting the student's current performance in the skill or behavior that you are measuring.

Baseline data represents a starting point that permits you to calculate precisely any progress the student makes during the intervention.

Because student data can vary, you should strive to collect at least 3 baseline data points.

Baseline Data: Examples

<i>Problem ID Statement</i>	<i>Sample Data Tool</i>	<i>Baseline Data</i>
HOMEWORK. Russell does not turn in homework.	Homework log	Russell turned in homework on 20 percent of days when homework was assigned. [Data source: percentage homework completion calculated from 1 week of homework log entries.]
WRITING. Andrea's writing includes many incomplete sentences.	Writing Sample: Compute percentage of complete sentences.	On Andrea's writing samples, an average of 40 percent of sentences are found to be incomplete. [Data source: median value of 3 writing samples collected on different days]
MATH FACTS. Rick is not fluent in multiplication math facts.	Curriculum-based measurement: 2-minute math computation worksheets	Rick calculates an average of 29 correct digits in 2 minutes on a 0-12 multiplication math-fact worksheet. [Data source: median value of 3 CBM worksheets collected on different days.]
BEHAVIOR. Angela is inattentive in large-group instruction.	Daily Behavior Report Card	On a DBRC item " <i>The student requires no more than 1 redirect for inattention during the class period</i> ", the teacher rates this item 'YES' during 1 of 5 days (20 percent). [Data source: percentage calculated from 5 days of DBRC data collection.]



How to Monitor Classroom Interventions

STEP 5: What is the student's outcome goal? You will next set an outcome goal that describes how the student is expected to perform on the target skill or behavior if the intervention is successful (e.g., after 6-8 weeks).

S.M.A.R.T. (SMART)

- **SPECIFIC**
- **MEASURABLE**
- **APPROPRIATE, ACHIEVEABLE, ATTAINABLE**
- **REALISTIC, RESULTS-FOCUSED**
- **TIME-BOUND**

Outcome Goal: Examples

<i>Problem ID Statement</i>	<i>Sample Data Tool</i>	<i>Outcome Goal</i>
HOMEWORK. Russell does not turn in homework.	Homework log	Russell will turn in at least 80 percent of assigned homework. [Data source: percentage homework completion calculated from final week of homework log entries.]
WRITING. Andrea's writing includes many incomplete sentences.	Writing Sample: Compute percentage of complete sentences.	On Andrea's writing samples, at least 90 percent of attempted sentences will be correct and complete. [Data source: median value of final 3 writing samples]
MATH FACTS. Rick is not fluent in multiplication math facts.	Curriculum-based measurement: 2-minute math computation worksheets	Rick will calculate an average of 49 correct digits in 2 minutes on a 0-12 multiplication math-fact worksheet. [Data source: average of final 2 CBM worksheets.]
BEHAVIOR. Angela is inattentive in large-group instruction.	Daily Behavior Report Card	On a DBRC item " <i>The student requires no more than 1 redirect for inattention during the class period</i> ", the teacher will rate this item 'YES' during at least 4 of 5 days (80 percent). [Data source: percentage calculated from final 5 days of DBRC data collection.]



How to Monitor Classroom Interventions

- **STEP 5: What is the student's outcome goal? (Cont.)** You can use several sources to calculate an outcome goal:
 - *CBMs*. If you are using academic CBMs with benchmark norms, those grade-level norms can help you to set a goal for the student.
 - *Classroom Norms*. If you are measuring a skill for which you lack benchmark norms, you may instead be able to compile classroom norms (i.e., sampling your entire class or a subgroup of your class) and use those group norms to set an outcome goal.
 - *Teacher-Defined Performance Goal (Criterion Mastery)*. Sometimes, you must write an outcome goal—but don't have access to benchmark or classroom norms. In this case, you can always use your own judgment to define a meaningful outcome goal: e.g., the student will follow a 7-step process to solve a math word problem.



How to Monitor Classroom Interventions

STEP 5: What is the student's outcome goal? (Cont.)

TIP: For a student with a large academic deficit, you very likely will not be able to close that skill-gap entirely within one 6-8-week intervention cycle.

In this instance, you should instead set an ambitious **'intermediate goal'** that will demonstrate that your student is clearly closing the academic gap with peers.

Students with substantial academic delays may require several repeated intervention-cycles with intermediate goals before they can close the skill-gap sufficiently to bring them up to grade-level peers (**'final goal'**).



How to Monitor Classroom Interventions

STEP 6: How often will you collect data? The more frequently you collect data, the more quickly you will be able to judge whether an intervention is effective (Filderman & Toste, 2018). This is because more data points make trends of improvement easier to spot and increase your confidence in the pattern that the data is showing you.

Ideally, you should collect data at least weekly for the duration of the intervention period. If that is not feasible, you will want monitor student progress no less than twice per month.



How to Monitor Classroom Interventions

STEP 7: How does the student's actual performance compare with the outcome goal? Once you have created your progress-monitoring plan for the student, you will put that plan into action. At the end of the pre-determined intervention period (e.g., in 6 weeks), you will review the student's cumulative progress-monitoring data, compare it to the outcome goal, and judge the effectiveness of the intervention.

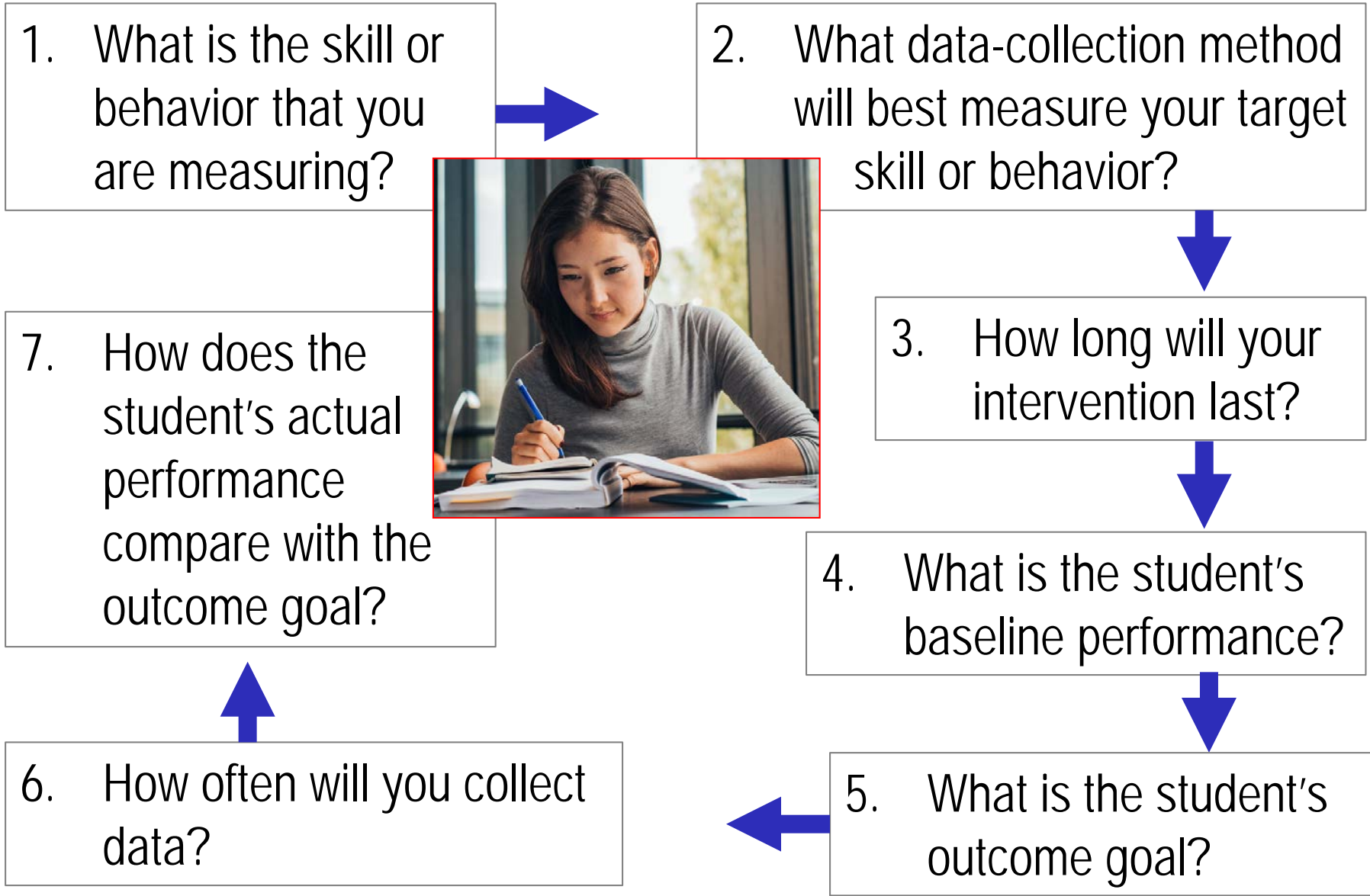


How to Monitor Classroom Interventions

STEP 7: How does the student's actual performance compare with the outcome goal? (Cont.) Here are your outcome decision rules:

- *Outcome goal met.* If your student meets the outcome goal, the intervention is a success. You can stop the intervention or continue for a time if the student still benefits from it.
- *Progress but outcome goal not met.* If your student fails to meet the outcome goal, but you see clear signs that the student is making progress, you might decide that the intervention shows promise. Here, your next step would be to alter the existing intervention to intensify its effect: e.g., smaller group size; more frequent meetings).
- *Little or no progress observed.* If your student does not make progress, you should replace the intervention plan with a new strategy.

Creating a Classroom Progress-Monitoring Plan: 7 Steps



Activity: How to Monitor Classroom Interventions



- Discuss with your team how you could use this 7-step planning framework in your own classroom or school.
- Which step(s) do you believe might be the **MOST challenging** to implement?

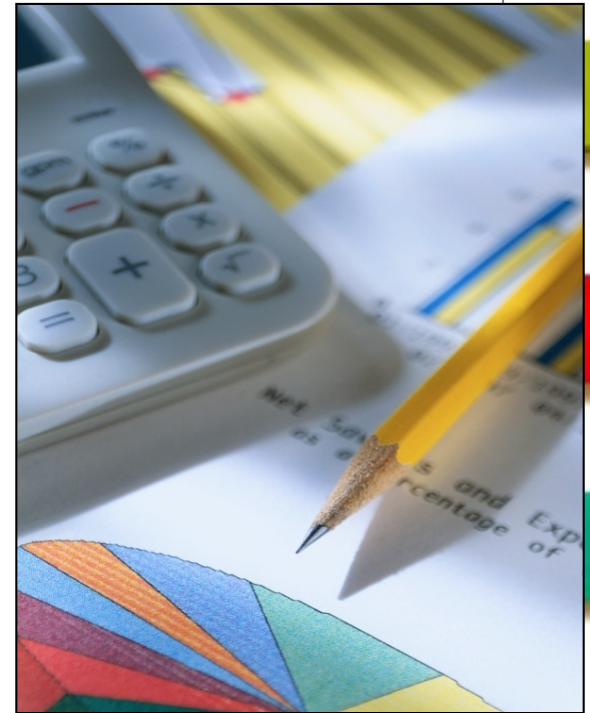


InterventionCentral
5-Minute 'Count Down' Timer

05:00

www.interventioncentral.org

Behavior Management:
Show Me the Data. What are feasible 'go-to' methods educators can use to track almost any classroom behavior?



Activity: Think of a student...

- Think of a student whom you work with that displays challenging classroom behaviors.
- Discuss this student with your group.
- Through the rest of this workshop segment on collecting behavioral data, think about how you might use the various assessment methods on this student.



Collecting Behavioral Data: 5 Methods

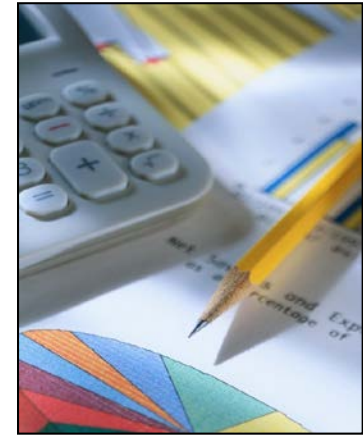
Behavior Report Cards

Checklists

Behavior Frequency Count

Momentary Time Sampling: Attention

Behavior Logs



Classroom Data Tool: Behavior Report Cards

- **What It Is:** A teacher-created rating scale (see pp. 25-29) that measures student classroom behaviors. A behavior report card contains 3-4 rating items describing goal behaviors. Each item includes an appropriate rating scale (e.g., YES/NO). At the end of an observation period, the rater fills out the report card as a summary snapshot of the student's behavior.

Classroom Data Tool: Behavior Report Card

- What It Can Measure:
 - General behaviors (e.g., complies with teacher requests; waits to be called on before responding)
 - Academic 'enabling' behaviors (e.g., has all necessary work materials; writes down homework assignment correctly and completely, etc.)

Response to Intervention

Ricky: Daily Report Card

Student Name: _____ Date: _____

Rater: Wright Classroom: _____

Directions: Review each of the Behavior Report Card items below. For each item, rate the degree to which the student showed the behavior or met the behavior goal.

Total YES Score: ___ Total NO Score: ___

	Language Arts	Math	Science	Social Studies	Study Hall
<i>Follows class rules with no more than 2 rule violations per session.</i> Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO	__Y__N	__Y__N	__Y__N	__Y__N	__Y__N
<i>Completes assignments within the allocated time.</i> Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO	__Y__N	__Y__N	__Y__N	__Y__N	__Y__N
<i>Completes assignments with 80% accuracy.</i> Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO	__Y__N	__Y__N	__Y__N	__Y__N	__Y__N
<i>Complies with teacher requests. (2 or fewer noncompliance per period)</i> Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO	__Y__N	__Y__N	__Y__N	__Y__N	__Y__N

Response to Intervention

Ricky: Daily Report Card

Student Name: _____ Date: _____

Rater: Wright Classroom: _____

Directions: Review each of the Behavior Report Card items below. For each item, rate the degree to which the student showed the behavior or met the behavior goal.

Total YES Score: ___ Total NO Score: ___

Follows class rules--no more than 1 rule violation per session.

Did the student succeed in this behavior goal?

YES NO

YES NO

Follows class rules with no more than 1 rule violation per session.

Did the student succeed in this behavior goal?

YES NO

Completes assignments within the allotted time.

Did the student succeed in this behavior goal?

YES NO

__Y__N

__Y__N

__Y__N

__Y__N

__Y__N

Completes assignments with 80% accuracy.

Did the student succeed in this behavior goal?

YES NO

__Y__N

__Y__N

__Y__N

__Y__N

__Y__N

Complies with teacher requests. (2 or fewer noncompliance per period)

Did the student succeed in this behavior goal?

YES NO

__Y__N

__Y__N

__Y__N

__Y__N

__Y__N



Response to Intervention

Ricky: Daily Report Card

Student Name: _____ Date: _____

Rater: Wright Classroom: _____

Directions: Review each of the Behavior Report Card items below. For each item, rate the degree to which the student showed the behavior or met the behavior goal.

Total YES Score: ___ Total NO Score: ___

	Language Arts	Math	Science	Social Studies	Study Hall
<i>Follows class rules with no more than 2 rule violations per session.</i>					
Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO	Y N	Y N	Y N	Y N	Y N
<i>Completes assignments within the time.</i>					
Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO					
<i>Completes assignments with 80% accuracy.</i>					
Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO					
<i>Complies with teacher requests. (2 or fewer noncompliance per period)</i>					
Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO	<u> </u> Y <u> </u> N	<u> </u> Y <u> </u> N	<u> </u> Y <u> </u> N	<u> </u> Y <u> </u> N	<u> </u> Y <u> </u> N

Completes independent assignments within time allocated.

Did the student succeed in this behavior goal?

YES NO



Response to Intervention

Ricky: Daily Report Card

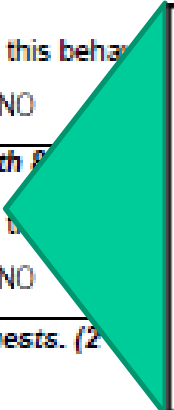
Student Name: _____ Date: _____

Rater: Wright Classroom: _____

Directions: Review each of the Behavior Report Card items below. For each item, rate the degree to which the student showed the behavior or met the behavior goal.

Total YES Score: ___ Total NO Score: ___

	Language Arts	Math	Science	Social Studies	Study Hall
<i>Follows class rules with no more than 2 rule violations per session.</i> Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO	__Y__N	__Y__N	__Y__N	__Y__N	__Y__N
<i>Completes assignments within the allocated time.</i> Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO					
<i>Completes assignments with 80% accuracy.</i> Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO					
<i>Complies with teacher requests. (2 noncompliance per period)</i> Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO	__T__N	__T__N	__T__N	__T__N	__T__N



Completes assignments with at least 80% accuracy.

Did the student succeed in this behavior goal?

YES NO



Response to Intervention

Ricky: Daily Report Card

Student Name: _____ Date: _____

Rater: Wright Classroom: _____

Directions: Review each of the Behavior Report Card items below. For each item, rate the degree to which the student showed the behavior or met the behavior goal.

Total YES Score: ___ Total NO Score: ___

	Language Arts	Math	Science	Social Studies	Study Hall
<i>Follows class rules with no more than 2 rule violations per session.</i> Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO	__Y__N	__Y__N	__Y__N	__Y__N	__Y__N
<i>Completes assignments within the allocated time.</i> Did the student succeed in this behavior goal? <input type="checkbox"/> YES <input type="checkbox"/> NO	__Y__N	__Y__N	__Y__N	__Y__N	__Y__N

Completes assignments with 80% accuracy.

Did the student succeed in this behavior goal?

YES NO

Complies with teacher requests (no more than 1 incident of noncompliance per period).

Did the student succeed in this behavior goal?

YES NO

Complies with teacher requests--no more than 1 incident of noncompliance per period.

Did the student succeed in this behavior goal?

YES NO

If you have any suggestions or comments about this tool, please mail me.

Roy's Report Card

 Switch to Expert Mode


Save Save as...

Start New Report Card


Step 1

Enter the basic form information


Behavior Report Cards are customized behavior rating forms that educators can use to evaluate the student's global behaviors on a daily basis or even more frequently. Use this application to create your own Behavior Report Card with rating items unique to the student that you are rating. Complete the fields below as the first step in creating your Behavior Report Card.

Report card title 


Roy's Behavior Report Card

Person to fill out the report card 


Mr. Wright

Directions 

Review each of the Behavior Report Card items below. For each item, rate the degree to which the student showed the behavior or met the behavior goal.

Student's classroom 

Room 345


Student's first and last name 

Roy

Atkins


Gender  male 

Font family  san serif  Font size  10 pt 

Append signature section 

Instructions for report card signer 

I have reviewed this completed Behavior Report with my child.

Person to sign the report card 

Parent

Previous Next

Free Online App:
Behavior Report Card Maker.
Teachers can use this free app
to create and download (in PDF
format) customized Behavior
Report Cards.

Classroom Data Tool: Checklist

- **What It Is:** The dividing of a larger behavioral task or sequence into constituent steps, sub-skills, or components. (See pp. 22-24).

Each checklist element is defined in a manner that allows the observer to make a clear judgment (e.g., YES/NO, COMPLETED/NOT COMPLETED) about whether the student is displaying it.

Classroom Data Tool: Checklist

- What It Can Measure:
 - Step-by-step cognitive strategies
 - Behavioral routines
 - Generalization: Target behavior carried out across settings

Classroom Data Tool: Checklist

Start-of-Class Checklist

- AT THE START OF CLASS, THE STUDENT:
- has a sharpened pencil.
- has paper for taking notes.
- has homework ready to turn in.
- has put her cell phone away in her backpack.
- has cleared her desk of unneeded materials.
- is sitting quietly.
- is working on the assigned start-of-class activity.

Checklist
Example:
Classroom
Routine

Classroom Data Tool: Checklist

How to Disagree Respectfully

- Remain calm.
- Listen actively and ask clarifying questions.
- Think about the other person's point of view.
- Explain your viewpoint clearly.
- Act nonjudgmentally.

Classroom Data Tool: Checklist

Free Online App:
 Self-Check Behavior
 Checklist Maker. This
 online tool allows teachers
 to define student behavior
 during classroom routines
 and transitions – a great
 way to clearly define
 behavioral expectations.

Self-Check Behavior Checklist Maker



View
Edit
Outline
Track
Configure Tool

Self-Check Behavior Checklist Maker



Create customized checklists for students to monitor their own classroom behaviors

If you have any suggestions or comments about this tool, please mail me.

Untitled Document

Save
Save as...

Start New Checklist

Self-Check Behavior Checklist Maker

Students who track their own behaviors gain greater control over those behaviors. Self-Check Behavior Checklist Maker is a free application that allows teachers to quickly create checklists that students can use to monitor their behavior in the classroom. Behavior checklists can be used to help both general-education and special-needs students to manage their behaviors in academically demanding and least-restrictive settings. (For suggestions on how to use behavior checklists, download [How To: Improve Classroom Behaviors Using Self-Monitoring Checklists.](#))

Directions

Click [HERE](#) to download the full [Self-Check Behavior Checklist Maker manual](#).

- To browse student self-monitoring items, select any of the categories from the 'Select Checklist' drop-down

Classroom Data Tool: Checklist

Activity: Customize a Behavioral Checklist

1. Pick a task in your classroom that your student finds challenging, such as:
 - *Getting organized at the start of class.*
 - *Completing an in-class reading assignment.*
 - *Participating in small-group discussion.*
2. Use the organizer on p. 24 to write down the steps that make up this larger task to create a behavioral checklist.



Classroom Data Tool: Behavior Frequency Count

- **What It Is:** In a behavioral frequency count, an observer (e.g., the teacher) watches a student's target behavior and keeps a cumulative tally of the number of times that the behavior is observed during a given period. (See pp. 30-32.)

Behaviors best measured using frequency counts have clearly observable beginning and end points—and are of short duration.

Examples include:

- call-outs
- requests for teacher help during independent seatwork.
- raising one's hand to contribute to large-group discussion.

Classroom Data Tool: Behavior Frequency Count

Behavior
Frequency
Count
pp. 31-32

Behavioral Frequency Count/Behavioral Rate Worksheet

Student: _____ School Yr: _____ Classroom/Course: _____

Behavior Definition: Define in clear, measurable, observable terms the behavior that will be measured using the behavioral frequency count (e.g., student call-outs during instructional activities):

Date: ___/___/___ Start Time: ___:___ End Time: ___:___ Setting/Activity: _____

Behavior Frequency Count: During the observation, place a tally mark (|) in the box below whenever the student displays the target behavior:

	Total Observed Behaviors	Minutes of Observation Time	Behavior Rate Per Minute
1	<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	Divided by	Equals
Comments: _____			

Date: ___/___/___ Start Time: ___:___ End Time: ___:___ Setting/Activity: _____

Behavior Frequency Count: During the observation, place a tally mark (|) in the box below whenever the student displays the target behavior:

	Total Observed Behaviors	Minutes of Observation Time	Behavior Rate Per Minute
2	<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	Divided by	Equals
Comments: _____			

Date: ___/___/___ Start Time: ___:___ End Time: ___:___ Setting/Activity: _____

Behavior Frequency Count: During the observation, place a tally mark (|) in the box below whenever the student displays the target behavior:

	Total Observed Behaviors	Minutes of Observation Time	Behavior Rate Per Minute
3	<div style="border: 1px solid black; width: 100px; height: 40px; margin: 0 auto;"></div>	Divided by	Equals
Comments: _____			

Classroom Data Tool: Behavior Frequency Count

- **How to use:** The observer watches the student and makes a tally mark for each observed display of the target behavior. At the end of the observation, the observer divides total number of behaviors observed by minutes of observation time to calculate a standardized rate of **behavior per minute**.

Behavior Definition: Define in clear, measureable, observable terms the behavior that will be measured using the behavioral frequency count (e.g., student call-outs during instructional activities):

The student calls out comments without permission during large-group instruction.

Date: 10/20/2018 Start Time: 10:30 End Time: 10:50 Setting/Activity: Writing Instruction: Whole-class

Behavior Frequency Count: During the observation, place a tally mark (|) in the box below whenever the student displays the target behavior:

	Total Observed Behaviors	Minutes of Observation Time	Behavior Rate Per Minute
1	6	Divided by 20m	Equals 0.3

Comments: Called out 1 correct answer to teacher Q; rest of call-outs were nonsense noises.

Classroom Data Tool: Behavior Frequency Count

Activity: Think Critically About BFC's

- Behavior Frequency Counts are useful when the student's behaviors have clear, observable start and end points and are of short duration.



Because BFCs require direct observation, the quality of information they provide also depends on factors such as where the observer is sitting and whether the student knows that he/she is being observed.

Look over the BFC form (pp. 31-32). Discuss ideas for when and how to use BFCs that will increase the usefulness of their data.

3

Classroom Data Tool: Momentary Time Sampling

- **What It Is:** In Momentary Time Sampling (MTS), the observer uses a timer, recording in sequence whether the student displays a specific 'target' behavior (e.g., 'on-task') across a series of fixed intervals (e.g., 15 seconds). (See p. 33.)

At the start of each interval, the observer briefly looks at the student ('momentary time sampling'). If, during that glance, the student displays the target behavior, the observer marks that interval on the observation form. If the student does NOT display the target behavior at the interval onset, the interval is not marked.

During the remainder of the interval, the observer can make observational notes. At the onset of the next interval, the observer repeats the observe-and-record process described above—and continues until the observation period ends.

Classroom Data Tool: Momentary Time Sampling

Classroom
Attention
Observation
Form
p. 33

Classroom Attention Observation Form

Student Name: _____	Date: _____
Observer: _____	Location: _____
Start Time: _____	End Time: _____
Description of Activities: _____	

Directions: Observe the student at a time when the student is engaged in independent seatwork or attending to large-group instruction. On-Task Behavior is the only behavior being recorded. It is coded using a momentary time-sampling procedure. At the start of each 15-second interval, glance at the target child for approximately two seconds and determine if the child is on-task or off-task during the brief observation. If the child is found to be on-task (attending to large-group instruction or doing his or her assigned seatwork), mark the interval with an "X." If the child is off-task, leave the article unmarked. Then keep running notes of any student behaviors or classroom events until the onset of the next time interval. When the observation is finished, use Table 1 below to calculate the student's time on task (engaged academic time).

	1				2				3				4				5			
	0:00	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	2:15	2:30	2:45	3:00	3:15	3:30	3:45	4:00	4:15	4:30	4:45
ON-TASK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	6				7				8				9				10			
	5:00	5:15	5:30	5:45	6:00	6:15	6:30	6:45	7:00	7:15	7:30	7:45	8:00	8:15	8:30	8:45	9:00	9:15	9:30	9:45
ON-TASK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	11				12				13				14				15			
	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45
ON-TASK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

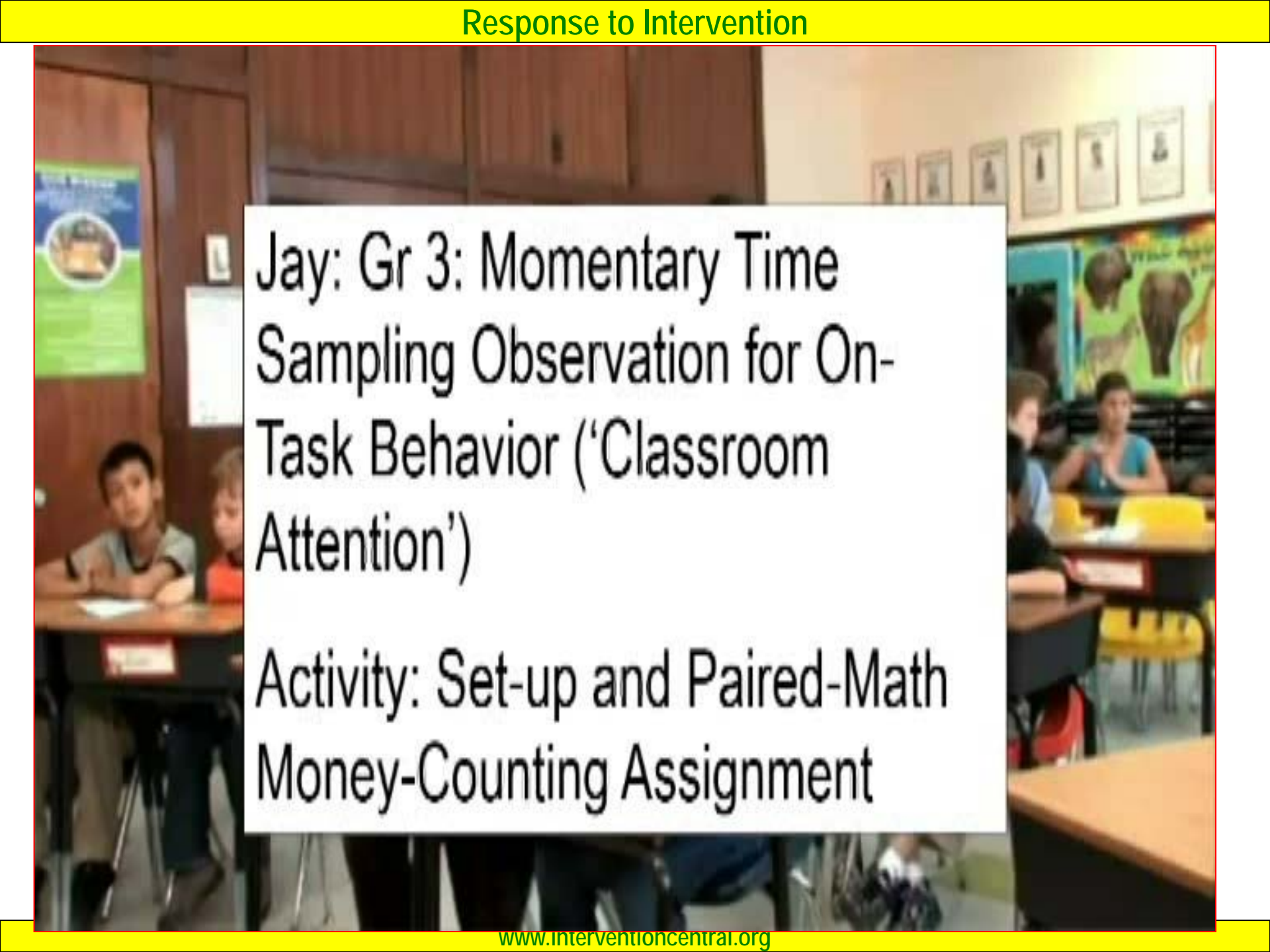
Table 1: Calculate the Rate of On-Task Behavior During the Observation Period

Type of Behavior	Number of intervals in which the On-Task behavior was observed.		The TOTAL number of intervals in the observation period(s)		Rate (in decimal form) that the On-Task behavior occurred during the observation.		Rate (in percentage form) that the On-Task behavior occurred during the observation.
ON-TASK		Divided by		Equals		Times 100 =	%

Describe any notable student behaviors or other classroom events observed during the session:

Classroom Data Tool: Momentary Time Sampling

- Review the 'Classroom Attention Observation Form' sheet on p. 33 of your handout.
- Watch the brief video of a classroom observation of a math-pairs activity in a 3rd-grade classroom—and observe how the observation sheet is completed for Jay using a Momentary Time-Sampling approach.
- *Discussion: What questions do you still have about using an MTS monitoring format?*

A photograph of a classroom with students at desks. A white text box is overlaid on the center of the image. The background shows a classroom with wooden paneling, a poster on the wall, and several students sitting at desks. One student in the foreground is looking towards the camera.

Jay: Gr 3: Momentary Time
Sampling Observation for On-
Task Behavior ('Classroom
Attention')

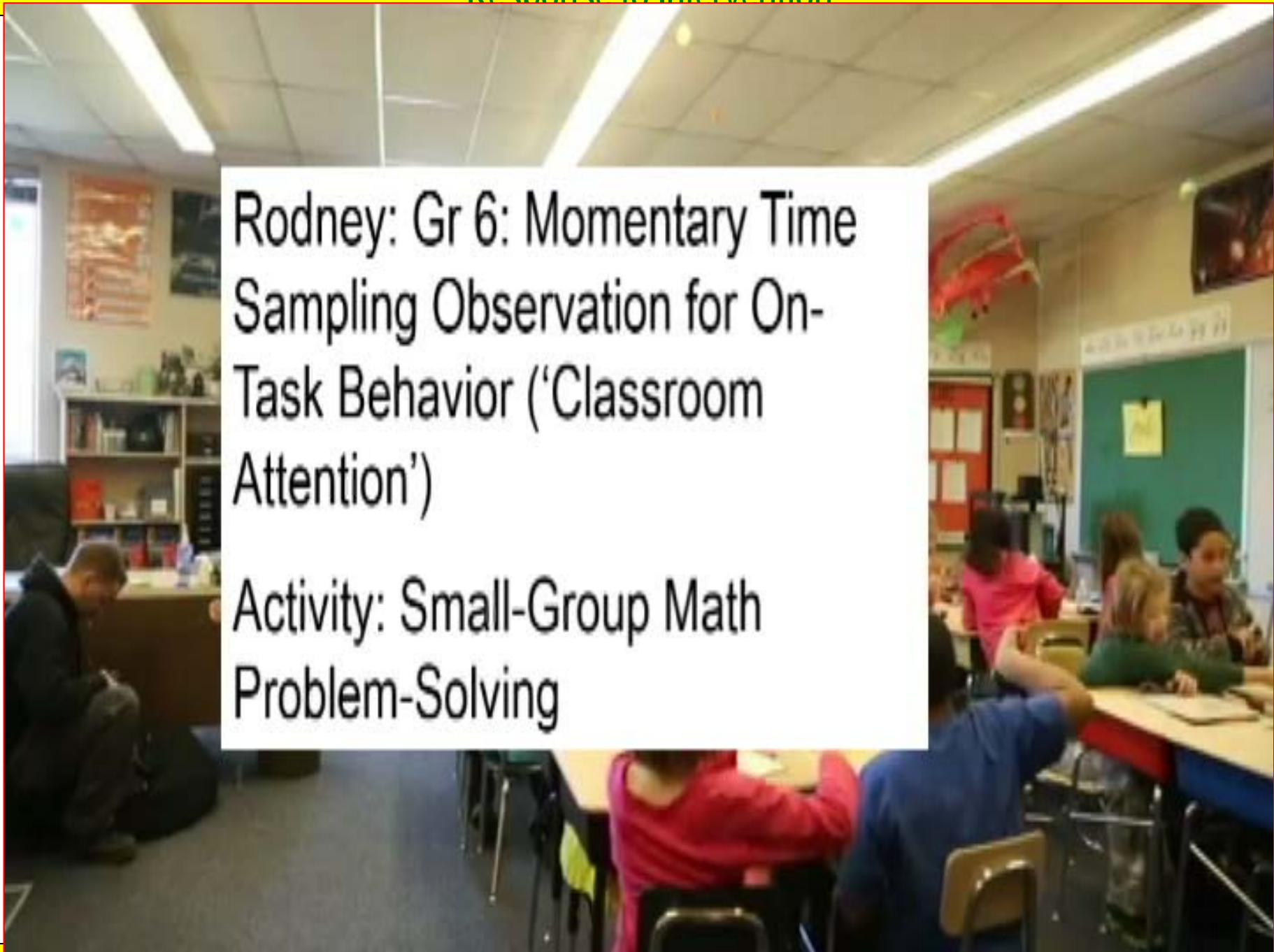
Activity: Set-up and Paired-Math
Money-Counting Assignment

Classroom Data Tool: Momentary Time Sampling

- **Activity: Part 2:** Watch the brief video of a classroom observation (small-group math activity).
- Using your 'Classroom Attention Observation Form' (p. 37), monitor your target student, Rodney, for on-task behavior. (If you have access to a stopwatch, try to use it during this observation.)
- At the end of the observation, you will score the sheet to compute percentage of intervals of on-task behavior for Rodney.
- *NOTE: Before beginning, write out a list of what behaviors you would consider to be 'on-task' for small-group cooperative math problem-solving.*

Rodney: Gr 6: Momentary Time
Sampling Observation for On-
Task Behavior ('Classroom
Attention')

Activity: Small-Group Math
Problem-Solving



Classroom Data Tool: Behavior Log/Scatterplot

- **What It Is:** Behavior logs are narrative 'incident reports' that the teacher records about problem student behaviors. (See pp. 34-36.) The teacher makes a log entry each time that a behavior is observed. An advantage of behavior logs is that they can provide information about the context within which a behavior occurs. (Disciplinary office referrals are a specialized example of a behavior log.)

Logged behavior incidents can then be plotted on 'scatterplots' to look for connections between student schedule and problem behaviors.

Behavior Log: Sample Form p. 35

Student Name: _____ Observer: _____

Time: ____; ____ a.m./p.m. Date: ____/____/____ Location: _____

Brief narrative of incident (including persons involved, scheduled activity, triggering event(s), outcome(s));

How long did this incident last? _____ mins

How severe was the behavior in the incident?

	1	2	3
	Not Severe	Somewhat Severe	Very Severe



Classroom Data Tool: Behavior Log/Scatterplot

- **What It Can Measure:**

Behavior logs are often used for teachers to record 'low-incident, high-amplitude' behaviors—that is, behaviors that occur only occasionally but that can disrupt instruction and/or pose a risk to safety (e.g., threats, verbal outburst, tantrum, destruction of property).

Behavior Log: Sample Form

Student Name: Angela H. Observer: Meredith Z.

Time: 11:40 a.m. Date: 10/20/18 Location: Social Studies: Indep Rdng

Brief narrative of incident (including persons involved, scheduled activity, triggering event(s), outcome(s));

The class was assigned a short passage to read and given 10 mins.

Angela sat at her desk but did not begin the reading. When approached by

the teacher and told to start reading, she refused and suddenly left the room.

How long did this incident last? 2 mins

How severe was the behavior in the incident?

1 2 3
Not Severe Somewhat Severe Very Severe

Behavioral Scatterplot
p. 36

Directions: Write the student's general daily schedule in the column labeled 'Activity/Class Schedule'. For each day during which target problems behaviors were monitored in the student's *behavioral log*, mark an 'X' in the appropriate date column at the time when the problem behavior occurred. When all behaviors have been plotted at the correct date and time of their occurrence, look for possible explanatory patterns between the activities scheduled and the behaviors observed --e.g., due to physical setting variables, academic task demands, presence or absence of adult supervision, etc.

Time	Activity / Class Schedule	Date/Day	Date/Day	Date/Day	Date/Day	Date/Day
7:30-7:45						
7:45-8:00						
8:00-8:15						
8:15-8:30						
8:30-8:45						
8:45-9:00						
9:00-9:15						
9:15-9:30						
9:30-9:45						
9:45-10:00						
10:00-10:15						
10:15-10:30						
10:30-10:45						
10:45-11:00						
11:00-11:15						
11:15-11:30						
11:30-11:45						
11:45-12:00						
12:00-12:15						
12:15-12:30						
12:30-12:45						
12:45-1:00						
1:00-1:15						
1:15-1:30						
1:30-1:45						
1:45-2:00						
2:00-2:15						
2:15-2:30						
2:30-2:45						
2:45-3:00						
3:00-3:15						
3:15-3:30						
3:30-3:45						
3:45-4:00						
4:00-4:15						
4:15-4:30						

Behavioral Scatterplot

Step 1: Plot Teacher Behavior Log Data onto Scatterplot. (In example, 'X' represents student refusal to comply with teacher request.)

Directions: Write the student's general daily schedule in the column labeled 'Activity/Class Schedule'. For each day during which target problems behaviors were monitored in the student's *behavioral log*, mark an 'X' in the appropriate date column at the time when the problem behavior occurred. When all behaviors have been plotted at the correct date and time of their occurrence, look for possible explanatory patterns between the activities scheduled and the behaviors observed --e.g., due to physical setting variables, academic task demands, presence or absence of adult supervision, etc.

Time	Activity / Class Schedule	Date/Day	Date/Day	Date/Day	Date/Day	Date/Day
7:30-7:45						
7:45-8:00						
8:00-8:15						
8:15-8:30		X				
8:30-8:45						
8:45-9:00						
9:00-9:15						
9:15-9:30						
9:30-9:45						
9:45-10:00						
10:00-10:15						
10:15-10:30						
10:30-10:45						
10:45-11:00						
11:00-11:15				X		
11:15-11:30						
11:30-11:45		X				
11:45-12:00						
12:00-12:15						
12:15-12:30					X	X
12:30-12:45						
12:45-1:00						
1:00-1:15						
1:15-1:30						
1:30-1:45						
1:45-2:00						
2:00-2:15						
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2:45-3:00						
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3:45-4:00						
4:00-4:15						
4:15-4:30						

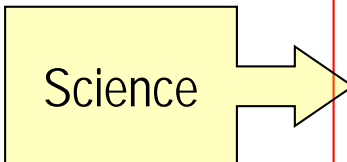
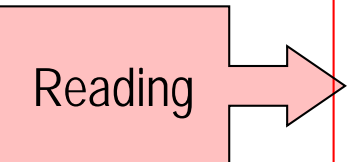
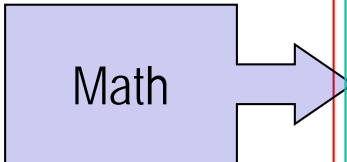
Behavioral Scatterplot

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Time	Activity / Class Schedule	Date/Day	Date/Day	Date/Day	Date/Day	Date/Day
7:30-7:45						
7:45-8:00						
8:00-8:15						
8:15-8:30						
8:30-8:45		X				
8:45-9:00						
9:00-9:15						
9:15-9:30						
9:30-9:45						
9:45-10:00						
10:00-10:15						
10:15-10:30						
10:30-10:45						
10:45-11:00						
11:00-11:15						
11:15-11:30				X		
11:30-11:45		X				
11:45-12:00						
12:00-12:15						
12:15-12:30					X	
12:30-12:45						X
12:45-1:00						
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2:45-3:00						
3:00-3:15						
3:15-3:30						
3:30-3:45						
3:45-4:00						
4:00-4:15						
4:15-4:30						

Step 2:

Superimpose the student's school schedule over the scatterplot. Look for significant patterns between location/activity and PRESENCE or ABSENCE of student behaviors.



Classroom Data Tool: Behavior Log/Scatterplot

Activity: Design Your Own Behavior Log

- Review the sample behavior log form on p. 35.
- *What recommendations do you have to improve the design of this log form?*



Student Name: _____ Observer: _____

Time: ___;___ a.m./p.m. Date: ___/___/___ Location: _____

Brief narrative of incident (including persons involved, scheduled activity, triggering event(s), outcome(s));

How long did this incident last? _____ mins

How severe was the behavior in the incident?

	1	2	3
	Not Severe	Somewhat Severe	Very Severe

Assorted Academic Data Tools. What are 4 additional teacher-friendly ways to monitor student academic performance?





Classroom Data Tools pp. 4-6

Classroom Data Tools: What Are They and What Can They Measure?

When a teacher wants to monitor a student's progress on a classroom academic intervention, the instructor will (1) decide what data 'channel' to use to collect that data, and then (2) select a data tool designed to capture the desired information. Here are those steps:

Step 1: Select a Data 'Channel.' While there are many ways to collect data to monitor student academic performance, virtually all information is gathered through one of four general 'data channels': direct observation, interviews, work products, or self-monitoring.

- **Direct observation.** The evaluator watches the student engaged in the academic task and records significant behaviors observed during that observation.
- **Interviews.** The evaluator talks with the student and/or adults familiar with the student to collect useful information about the student's academic performance.
- **Work products.** The evaluator reviews completed student work (e.g., in-class or homework assignments, quizzes and tests, etc.) to draw conclusions about that student's academic performance.
- **Self-monitoring.** The student collects information about his or her own academic performance and shares that data with the evaluator.

The four channels described here give teachers access to vital information on student performance. However, it is likely that the data the teacher collects across multiple situations will be highly variable and subjective—unless that instructor makes an effort to collect information in a structured, consistent format over time.

For example, a teacher might observe a student weekly during independent work to monitor whether the learner is consistently applying all steps of an academic strategy. If the teacher simply jots down random notes during these observations, the information collected will probably vary considerably across time, depending on what the teacher decides to include in his notes on any given day. If instead, however, the teacher uses a checklist that includes the essential steps in the academic strategy, that instructor's observations are far more likely to record accurately and consistently what steps in the strategy the student actually uses.

Checklists, rubrics, and other tools can transform information collected via observation, interviews, work products, or self-monitoring into objective formative data that can be charted over time to track the outcomes of classroom interventions.

Step 2: Select a Data Tool. Teachers have a variety of tools that they can access to collect behavioral or academic information and monitor classroom interventions. This 'look-up' chart provides a review of the most common data sources and what they can measure:

Data Tool	What It Is	What It Can Measure
Archival Data	Existing data routinely collected by schools that provides useful ongoing information about the student's academic or behavioral performance.	<ul style="list-style-type: none"> • Attendance • Office disciplinary referrals • Other aspects of behavior or academic performance captured in the school database

Classroom Data Collection: 4 'Channels' (p. 4)

While there are many ways to collect data to monitor student academic performance, virtually all information is gathered through one of four general 'data channels':

1. *Direct observation.* The evaluator watches the student engaged in the academic task and records significant behaviors observed during that observation.

Direct observation is useful to verify that the student uses the correct skills in the correct sequence at the correct time.

Classroom Data Collection: 4 'Channels'

While there are many ways to collect data to monitor student academic performance, virtually all information is gathered through one of four general 'data channels':

2. *Interviews.* The evaluator talks with the student and/or adults familiar with the student to collect useful information about the student's academic performance.

Interviews are ideal to access information not otherwise easily available: e.g., having the student recite steps followed while solving a math problem; talking with a parent about a student's homework session.

Classroom Data Collection: 4 'Channels' (Cont.)

3. *Work products.* The evaluator reviews completed student work (e.g., in-class or homework assignments, quizzes and tests, etc.) to draw conclusions about that student's academic performance.

Work products provide evidence of the student's use of specific problem-solving or other strategies and can verify whether the learner is applying skills independently ('generalization' measure).

Classroom Data Collection: 4 'Channels' (Cont.)

4. *Self-monitoring*. The student collects information about his or her own academic performance and shares that data with the evaluator.

Self-monitoring allows the student to note and record information hidden to others, including attentional focus, problem-solving steps followed during independent work, etc.

Classroom Data Tool: Archival Data

- **What It Is:** Existing data routinely collected by schools that provides useful ongoing information about the student's academic or behavioral performance.

DISCIPLINARY REFERRAL

STUDENT _____ DATE _____
 STUDENT'S ID NO. _____ CLASS-GRADE _____
 LOCATION _____
 TEACHER _____

DATE OF INCIDENT _____ TIME _____

NOTICE TO PARENT/GUARDIAN:

1. The purpose of this report is to inform you of a disciplinary incident involving the student.
 2. You are urged to appreciate the action taken by the teacher and to cooperate with the corrective action initiated today.

REASON(S) FOR REFERRAL

Cutting Class
 Excessive Tardiness
 Annoying to Classmates
 Destructive to School Property

Lack of Class Materials
 Lack of Cooperation
 Rude, Discourteous

Restless, Inattentive
 Excessive Talking
 Mischief

ACTIONS TAKEN PRIOR TO REFERRAL

Checked Student's Folder
 Held Conference with Student
 Consulted Counselor

Detained Student After School
 Changed Student's Seat
 Telephoned Parent

Held Conference with Parent
 Sent Previous Report Home

PRESENT ACTION AND RECOMMENDATION(S)

Student Regrets Incident, Cooperative
 Recurring Incidents Will be Reported

Student Placed on Probation
 Student Suspended

Student Will Make Up Time
 Case Referred to _____

Comments: _____

Please sign and return Need not be returned

Parent/Guardian Signature _____ WHITE PARENTS GUARDIAN
 CANARY-TEACHER

PKK-OFFICE

003923 - School Smart • 1-800-451-9877

Classroom Data Tool: Archival Data

- What It Can Measure:
 - Attendance
 - Office disciplinary referrals
 - Other aspects of behavior or academic performance captured in the school database

Classroom Data Tool: Grades

- **What It Is:** Represents in letter or number form the teacher's formal, summary evaluation of the student's academic performance on an assignment, quiz, test, or longer span of evaluation.



Classroom Data Tool: Grades

- What It Can Measure:
 - Academic Performance

Classroom Data Tool: Grades

- **Grades as Progress-Monitoring Tools**

Grades can be optimized in 2 ways to monitor interventions:

1. *Revise grading to yield a 'pure' measure of academic performance.* One trick for making grades a data source capable of reliably tracking the impact of an intervention is to partition the global grade into academic and non-academic components. The teacher then has the option to average the two components to calculate a composite grade. The advantage of this approach is that the instructor can use just the academic grade as a 'pure' measure of the student's actual performance.

Classroom Data Tool: Grades



- **Grades as Progress-Monitoring Tools**

Grades can be optimized in 2 ways to monitor interventions:

2. *Increase frequency of grading opportunities.* The power of grades as a data source increases significantly when opportunities for grading occur more often (Weinstein & Wu, 2009). Collect relevant gradable student work at least weekly to provide grading information sufficient to evaluate ongoing growth in performance. This frequency results in the teacher's ability to have a real-time sense of academic performance across the entire class (allowing reteaching if needed), and to track short-term improvements in course performance for specific students.

2

Classroom Data Tool: Grades

Grading Example: Comprehension: Measuring retention of assigned readings.

Readiness Assessment Tests (RATs). RATs are brief teacher-made assignments that students complete *after* reading but *before* that reading is reviewed in class (Weinstein & Wu, 2009). The teacher identifies the most relevant information from the assigned reading and constructs a few questions (e.g., 5) to test that knowledge.

The instructor selects the RAT-question format: short-answer; essay; multiple-choice, or any combination.

Readiness Assessment Tests (RATs): Sample Questions.

Multiple Choice.

A solar eclipse occurs when:

- A. the sun cools and dims.
- B. the moon passes between the earth and sun.
- C. the earth spins on its axis.
- D. the earth blocks moonlight.

Short Answer.

A solar eclipse occurs when the _____ passes
between the _____ and sun.

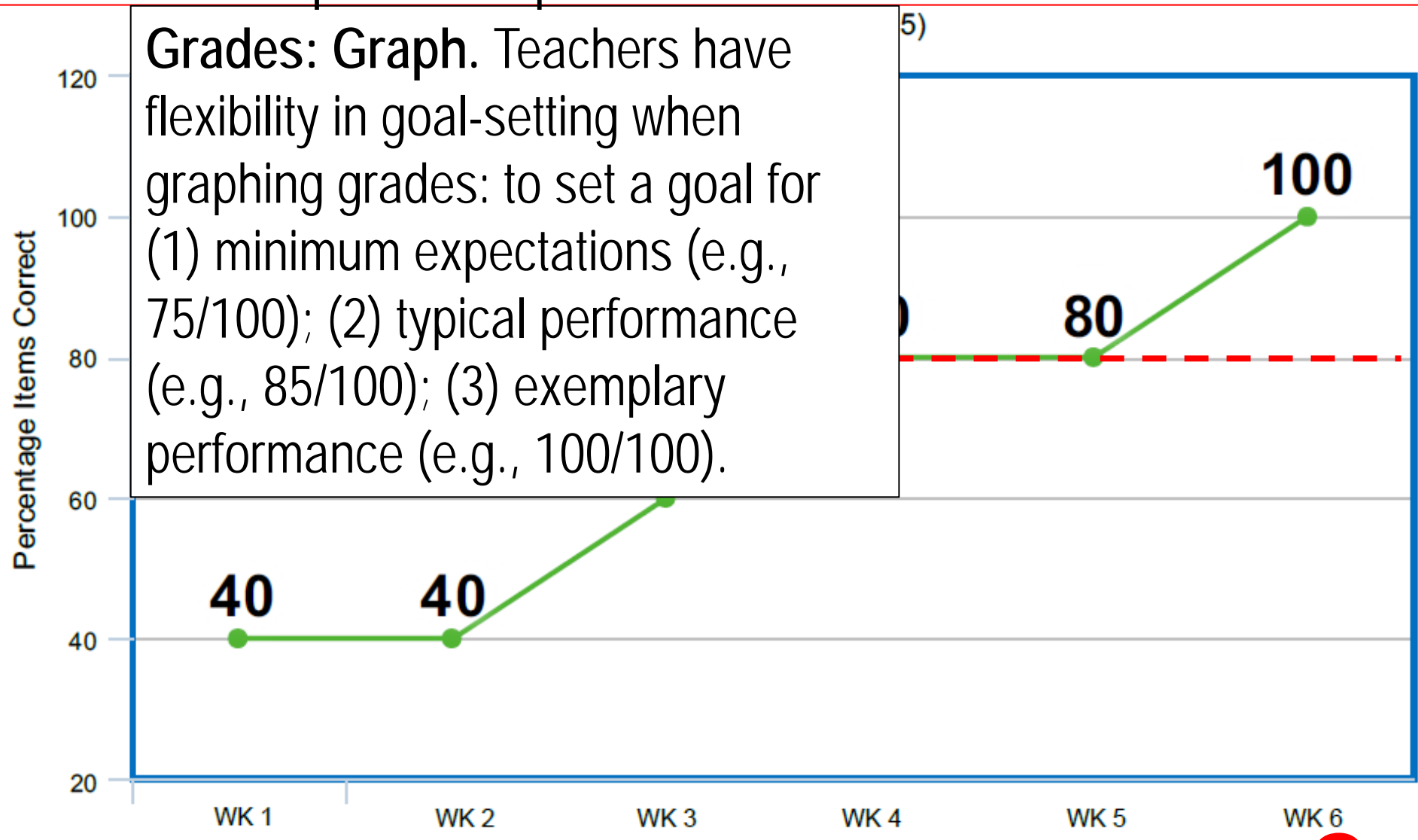
Essay

Write a brief essay explaining the cause of a solar eclipse.

2

Grades Graph: Example

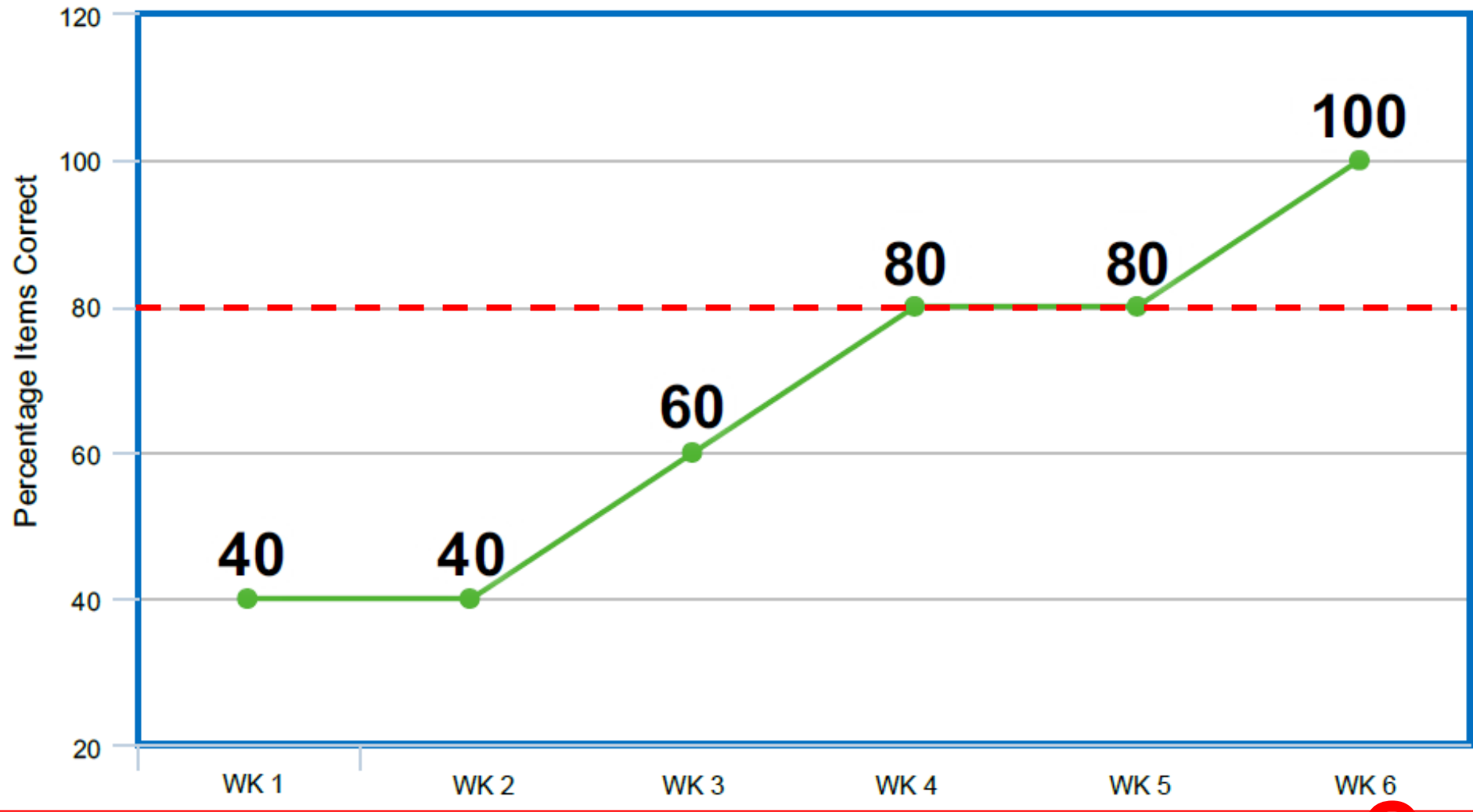
Grades: Graph. Teachers have flexibility in goal-setting when graphing grades: to set a goal for (1) minimum expectations (e.g., 75/100); (2) typical performance (e.g., 85/100); (3) exemplary performance (e.g., 100/100).



2

Grades Graph: Example

Nikea: RAT % Correct (of 5)



2

Classroom Data Tool: Rubric

- **What It Is:** An instrument designed to measure a student on complex tasks.

In a rubric, the teacher defines the categories that make up the important dimensions of a task, develops written exemplars representing mastery for each dimension, and creates a rating scale to be used in evaluating a particular student's work for each dimension.

Core Standards & Student Motivation/Self-Regulation

a. Prepares
for
discussion

Standard &
Grades: K-5

Source: National Center for Best Practices & Council of Chief State School Officers. (2010). *Common core state standards for English language arts and literacy in history/social studies, science, and technical subjects*. Washington, DC: Authors. Retrieved from <http://www.corestandards.org/> p. 24

Grade 5 students:

1. Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on *grade 5 topics and texts*, building on others' ideas and expressing their own clearly.
 - a. Come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.
 - b. Follow agreed-upon rules for discussions and carry out assigned roles.
 - c. Pose and respond to specific questions by making comments that contribute to the discussion and elaborate on the remarks of others.
 - d. Review the key ideas expressed and draw conclusions in light of information and knowledge gained from the discussions.

3

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CCSS: ELA: Speaking & Listening Standards: K-5

b. Fulfills assigned discussion role(s) and follows rules

Intervention Center of State School

Retrieved p. 24

3

Core Standards & Student Motivation/Self-Regulation

Grade 5 students:

c. Engages
in Q&A turn-
taking and
contributes
ideas to
discussion

Speaking &
Listening: K-5

Source: Core Standards for English Language Arts and Literacy in History/Social Studies, Science, and Technical Subjects. Washington, DC: Authors. Retrieved from <http://www.corestandards.org/> p. 24

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 - d. Review the key ideas expressed and draw conclusions in light of information and knowledge gained from the discussions.

3

Core Standards & Student Motivation/Self-Regulation

d. Reviews discussion content to summarize learning, draw conclusions

Writing & Speaking: K-5

Writing & Speaking: K-5

Source: *Core Standards for English Language Arts*, Grade 5, Washington, DC: Authors. Retrieved from <http://www.corestandards.org/> p. 24

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3

Analytic Rubric: 'Student Discussion Group' Example

Task: The student will take part in weekly in-class collaborative peer discussions of assigned readings, contributing ideas and responding appropriately to the ideas of others (from CCSSELA.5.SL.1).

Dimensions	Needs Work (1-3 pts)	Competent (4-6 pts)	Exemplary (7-9 pts)
Preparation	Has not completed the assigned readings and/or does not bring notes of the readings to the discussion..	Has completed the assigned reading(s) and brings notes of the readings to the discussion.	Has completed the assigned reading(s), brings notes of the readings to the discussion, and gives evidence of having done additional reading/research in the discussion topic.
Compliance With Discussion Rules/Roles	Fails to follow the rules set up for the discussion activity and/or does not adequately carry out the responsibilities of an assigned discussion role.	Follows the rules set up for the discussion activity. When assigned a role in discussion, adequately carries out the responsibilities of that role.	Follows the rules set up for the discussion activity. When needed, reminds others to adhere to discussion rules. When assigned a formal role (e.g., discussion leader), fully carries out the responsibilities of that role.
Contribution to Discussion	Does not actively sustain his or her part in the discussion. May pose questions of limited relevance to the discussion topic. May not respond appropriately to the comments of others.	Poses questions relevant to the discussion topic and responds appropriately to the comments of others. Remarks display a willingness to acknowledge the contributions of others in the discussion group,	Participates fully in the discussion. Poses questions relevant to the discussion topic and responds appropriately to the comments of others. Remarks display a good grasp of the topic and a willingness to acknowledge the contributions of others in the discussion group,

Rubric:
Example

3

Sample Retell Rubric

MLPP RETELLING RUBRIC K - 12| INFORMATIONAL TEXT

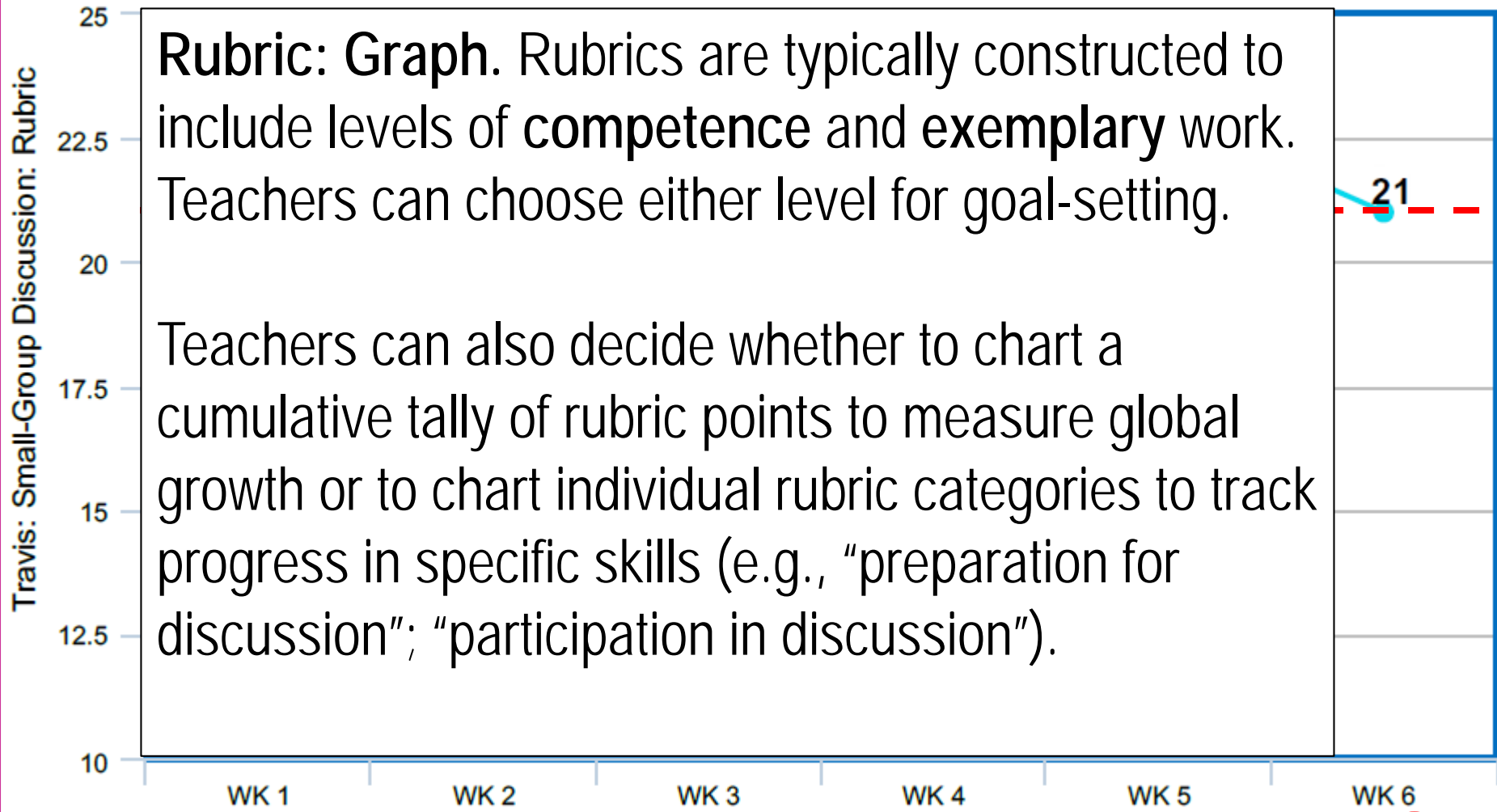
Qualities of Retelling	4 Mature	3 Capable	2 Developing	1 Beginning
Central Purpose/Gist	Retelling indicates a clear and elaborated understanding of the central purpose of the selection.	Retelling indicates a basic understanding of the central purpose of the selection.	Retelling indicates an incomplete or inaccurate understanding of the central purpose of the selection.	Retelling indicates no understanding of the central purpose of the selection.
Restatement/ Elements	Retelling contains a clear and accurate restatement of important and supporting elements. May contain related prior knowledge.	Retelling contains a clear and accurate restatement of most important and supporting elements.	Retelling lacks important elements and/or contains inaccurate information.	Retelling is minimal and inaccurate .
Organization	Important and supporting elements are logically presented and clearly connected.	Most important and supporting elements are presented logically and connected.	Elements are presented in a random or disconnected order.	There is little or no development of elements.
Linguistic Spillover	Use of language, conventions, and/or format from the selection reflects an elaborated and personalized understanding of the information.	Use of language, conventions, and/or format from the selection indicates basic understanding of the information.	Use of language, conventions, and/or format from the selection may indicate superficial understanding.	Retelling includes little or no use of language, conventions, and/or format from the selection.

Classroom Data Tool: Rubric

- What It Can Measure:
 - ❑ Any complex, multi-dimensional task, such as:
 - ✓ participation in a discussion;
 - ✓ writing a research paper;
 - ✓ preparing and presenting a PowerPoint;
 - ✓ completing and documenting a science lab project.

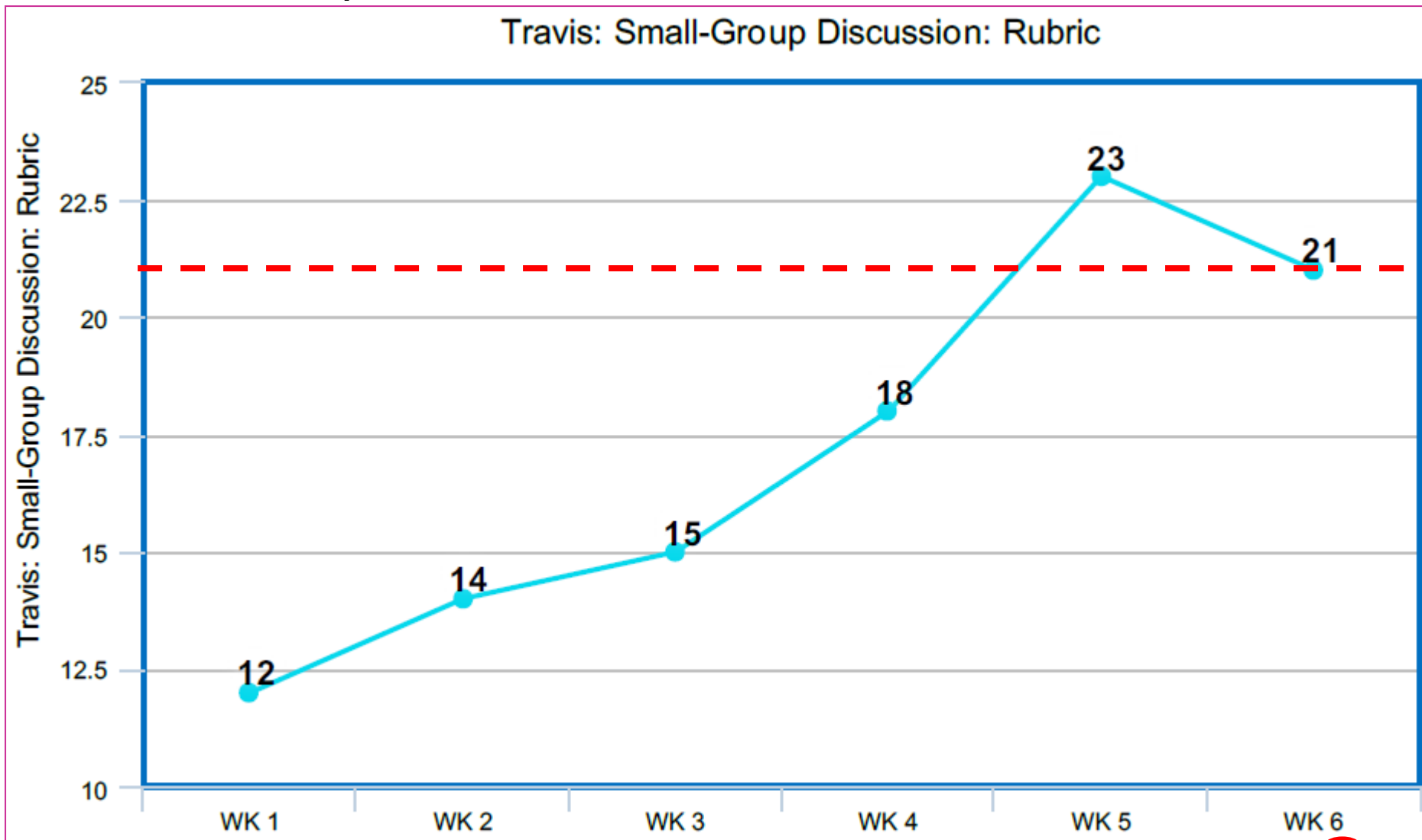
Rubric: Example

Travis: Small-Group Discussion: Rubric



3

Rubric: Example



3

Classroom Data Tool: Work Products



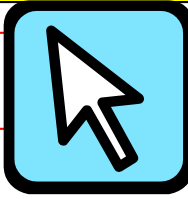
- **What It Is:** Student work that reflects performance on a series of similar in-class or homework assignments (e.g., successive writing assignments or ongoing math homework).

A work product is selected because it can reflect growth in the intervention target skill(s). The element(s) of the work product being tracked can be objectively measures and converted to numeric data (e.g., percentage of problems completed).

Classroom Data Tool: Work Products

- What It Can Measure:
 - Work completion
 - Work accuracy
 - Written evidence of problem-solving steps
 - Quality of student work (e.g., on writing assignments)

Classroom Data Tool: Work Products

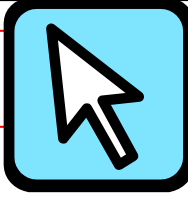


- **Converting Work Products from Artifact to Data: Tutorial:**

Teachers can find many inventive ways to convert work products into objective data. Here are some ideas to get started:

1. *Work Accuracy: Percentage.* Tracks the accuracy of student work containing a finite number of items, such as math number problems or end-of-chapter questions. Compute by dividing the number of correct answers by the total number of assigned items.

Classroom Data Tool: Work Products



- **Converting Work Products from Artifact to Data: Tutorial:**
 2. *Work Attempted: Percentage.* Measures effort on student work containing a finite number of items. Calculate by dividing the number of items attempted (whether correct or not) by the total number of items.
 3. *Work Time: Time Log.* Indicates the amount of time required to complete the assignment. Compute by (1) having the student or teacher record the student's start and end time in working on the assignment and then (2) calculating the number of elapsed minutes.

Classroom Data Tool: Work Products

Work products. Example.

- Text annotation. Students can increase their retention of information when they interact actively with their reading by jotting comments in the margin of the text (Sarkisian et al., 2003).

The image shows a page of text with handwritten annotations and four yellow callout boxes labeled 1, 2, 3, and 4. The text is from a book and includes the following paragraphs:

ness, and capacity of being pleased, which are also an inheritance they have preserved from their childhood.

I might have a misgiving that I am 'meandering' in stopping to say this, but that it brings me to remark that I build these conclusions, in part upon my own experience. I should appear from any narrative that I was a child that as a man I have a strong memory of my childhood, I undoubtedly lay claim to both of these characteristics.

Looking back, as I was saying, into the blank of my infancy, the first objects I can remember as standing out by themselves from a confusion of things, are my mother and Peggotty. What else do I remember? Let me see.

There comes out of my memory a new to me, but quite familiar scene. On the ground-floor of a house, an opening into a back yard; with a pigeon-house on a pole, in the centre, without any pigeons in it; a great dog-kennel in a corner, and a large quantity of fowls that look as if they were looking about, in a menacing way.

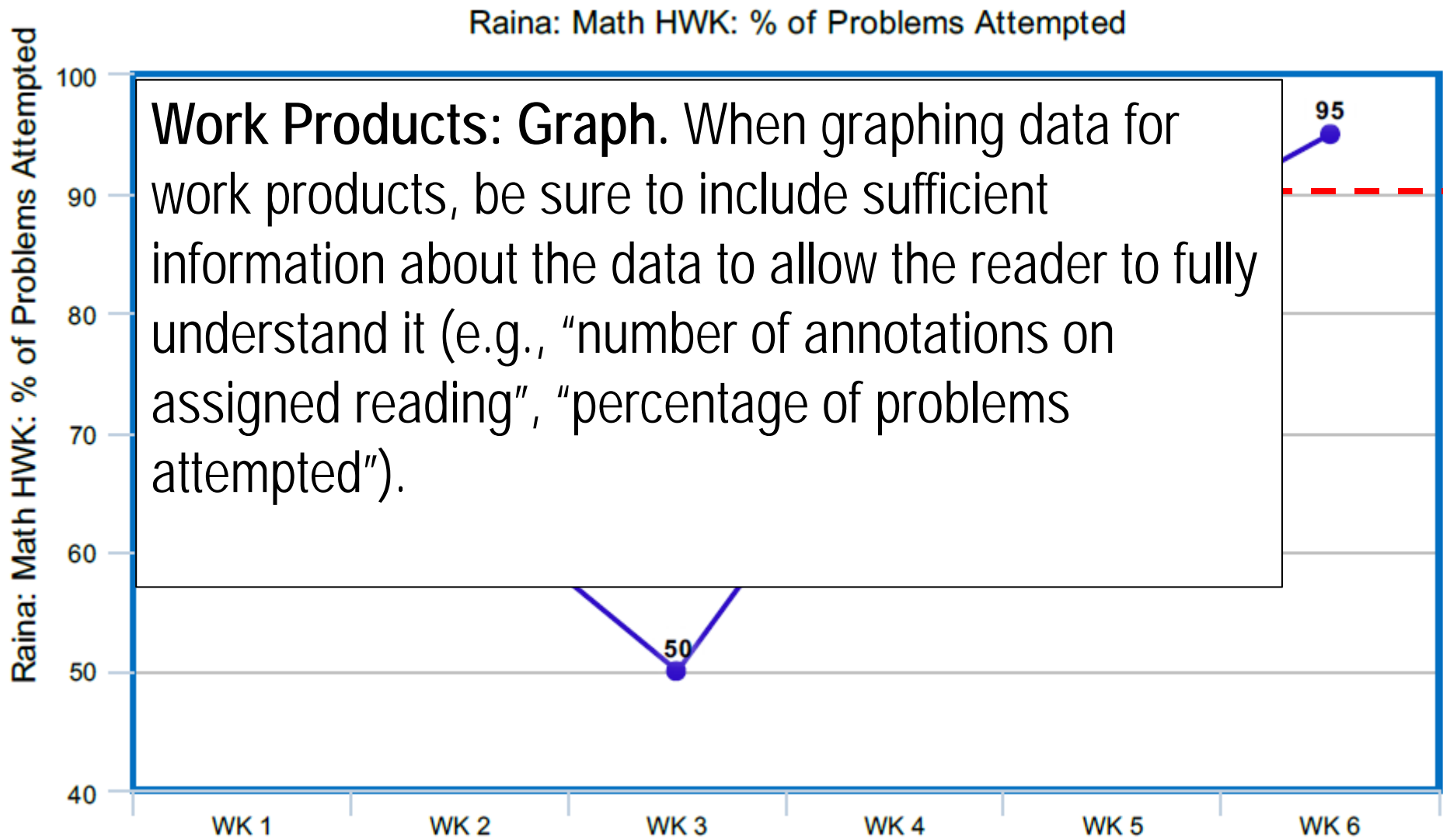
There is one cock who gets upon a post to crow, and seems to take particular notice of me as I look at him through the kitchen window, who makes me

Handwritten annotations include:

- Top left: "observation = memory"
- Top right: "I OBSERVE" and "109"
- Left margin: "looking back", "Man vs. Boy", "This becomes blurred"
- Right margin: "visual memory", "let me think", "CAN'T TAKE IMAGES"
- Bottom left: "Sub-Context", "something missing?", "Kennel filled with Marston's birds", "new pair"
- Bottom center: "looks through windows a lot"
- Bottom right: "Present Tense"

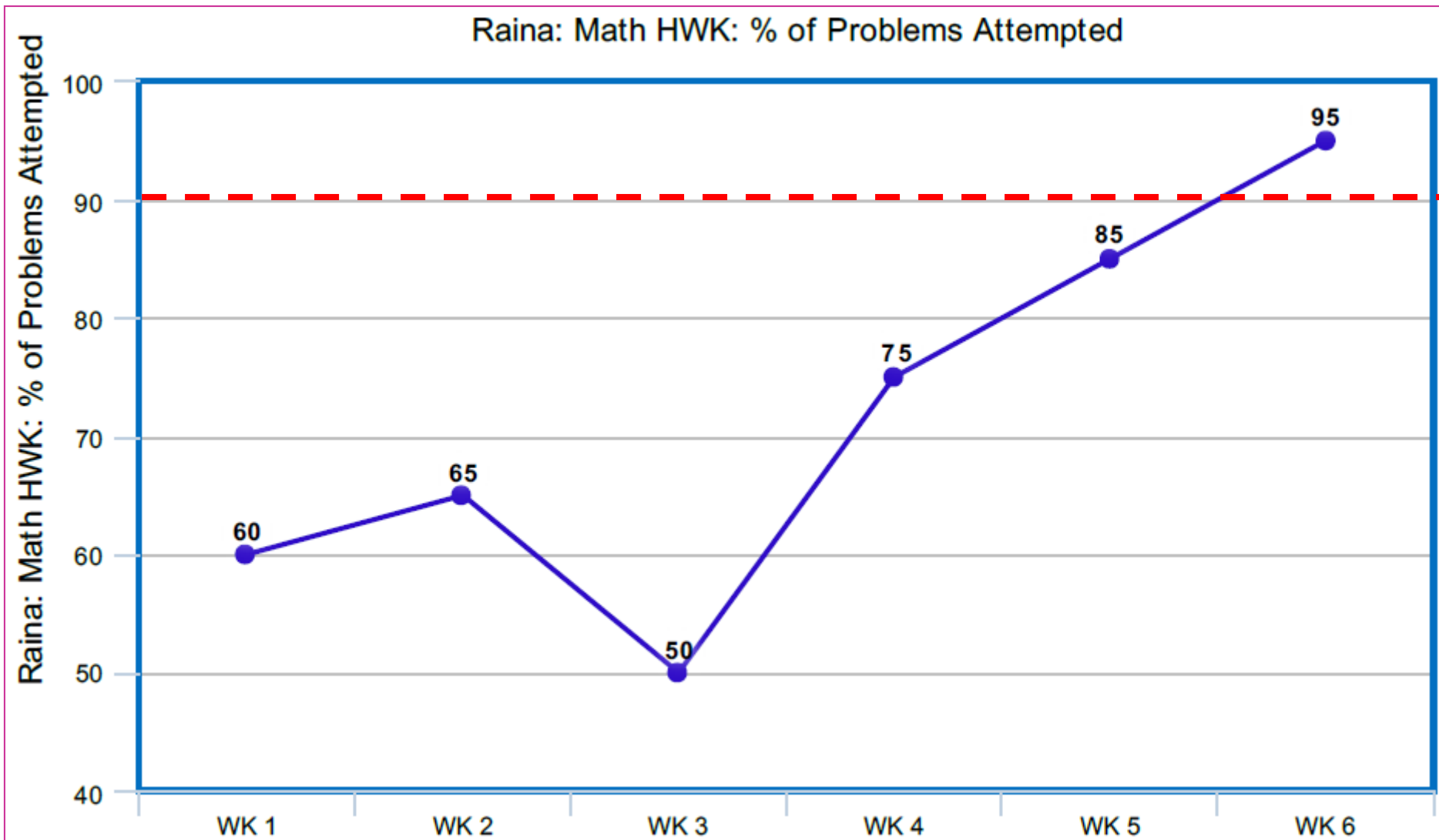
The four yellow callout boxes are numbered 1, 2, 3, and 4, pointing to specific parts of the text.

Work Products: Example



4

Work Products: Example



4

Classroom Data Tools: Activity

Look over the range of classroom data tools listed on pp. 4-6.

Discuss how you might use these resources and ideas as a starting point to build a classroom or school-wide 'data collection' toolkit.



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Step 2: Select a Data Tool. Teachers have a variety of tools that they can access to collect behavioral or academic information and monitor classroom interventions. This 'look-up' chart provides a review of the most common data sources and what they can measure:

Data Tool	What It Is	What It Can Measure
Archival Data	Existing data routinely collected by schools that provides useful ongoing information about the student's academic or behavioral performance.	<ul style="list-style-type: none"> • Attendance • Office disciplinary referrals • Other aspects of behavior or academic performance captured in the school database

Ask the right questions.
What question(s) do you
want your data collection to
answer?



Progress-Monitoring Questions: How Do I Measure...?

Before a teacher can select a method to monitor a student intervention, that instructor must first decide what assessment question(s) to answer. This 'look-up' chart lists the most common classroom assessment questions and specific assessments that can answer those questions.

Handout: pp. 7-8

Assessment Questions: How do I measure if the student...	Suggested Methods of Progress-Monitoring
<ul style="list-style-type: none"> is becoming more accurate in an academic skill (goal: accuracy only)? 	<ul style="list-style-type: none"> Cumulative Mastery Record: This approach is suitable when the student is mastering a fixed set of items (e.g., biology vocabulary; multiplication math facts 0-12). Observation/Log: The teacher observes and records instances of successful student performance. Work product: The teacher examines student work and records the number/percentage of items correct.
<ul style="list-style-type: none"> is developing fluency in an academic skill (goal: accuracy plus speed)? 	<ul style="list-style-type: none"> Curriculum-based measures: CBMs are a good choice for rote basic skills such as reading fluency, or math fact fluency. Other timed measures: Teachers can create their own timed proficiency assessments—that assess work efficiency by measuring accurate responding within pre-set time limits (e.g., running record).
<ul style="list-style-type: none"> is increasing comprehension of independent reading? 	<ul style="list-style-type: none"> Grades: Assignments or quizzes are structured to assess student comprehension of assigned readings and collected with sufficient frequency to capture evidence of short-term improvements. Work product: Short-answer questions. The teacher prepares questions suitable for assessing student comprehension of the reading (e.g., mix of factual and inferential questions). Question sets can be assigned as homework or included in quizzes. Work product: Written retelling. The student is assigned to summarize important points of assigned readings ('written retellings'); the teacher tabulates the number/percentage of 'key ideas' or concepts included in the retelling.
<ul style="list-style-type: none"> is mastering a multi-step cognitive strategy or behavior routine? 	<ul style="list-style-type: none"> Checklist: The teacher or student uses a checklist to verify steps of the strategy successfully completed. Work product: The student is directed to show work on assignment, e.g., perhaps assisted by visual organizers or other aids highlighting strategy steps. The teacher reviews completed work for evidence of strategy use. Observation/Interview: An adult observes the student during the activity to record (perhaps with the help of a checklist or behavior report card) those steps successfully carried out. The observer may also ask the student to describe the steps being followed.
<ul style="list-style-type: none"> is turning in homework or in-class assignments with greater frequency? 	<ul style="list-style-type: none"> Log: The teacher keeps a record of homework turned in.

“ *Problems are an unacceptable discrepancy between what is expected and what is observed.* ”

-Ted Christ

Monitoring student progress: How do I measure if the student...






- is becoming more accurate in an academic skill (goal: accuracy only)?
- is developing fluency in an academic skill (goal: accuracy plus speed)?
- is increasing comprehension of independent reading?
- is mastering a multi-step cognitive strategy or behavior routine?
- is turning in homework or in-class assignments with greater frequency?
- produces work of higher quality?
- is increasing on-task behavior and academic engagement?
- is better able to organize and implement steps necessary to complete an in-class or homework assignment?
- transfers an existing skill or strategy to new settings or situations (goal: generalization)?
- improves compliance with behavioral expectations?
- improves overall academic standing in the course because of academic interventions?

Your Data Questions Drive Choice of Assessment...

- Look over the sample data questions on pp. 7-8.
- How could your school use a 'question-table' like this to demystify data collection? (For example, a school psychologist or special educator could use this handout to 'walk' a general-education teacher through the process of picking a suitable data-collection method for a student.)



Workshop Topics

-  1. **Reviewing 'Big Ideas'.** What are important concepts relating to data collection?
-  2. **Creating a Monitoring Plan.** What are the 7 steps to creating a plan to monitor a student's intervention progress?
-  3. **Data Collection: Behavior.** What tools are best to collect reliable behavioral data?
-  4. **Data Collection: Academics.** How can Curriculum-Based Measurement and other data tools help schools to track academic performance?
-  5. **Documenting Progress-Monitoring Plans.** What is a simple format to put student monitoring plans in writing?

MTSS and Behavior: Resources

Jim Wright

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RTI/MTSS Toolkit: A Practical Guide for Schools

Managing Classroom Behaviors:

A Toolkit

Jim Wright, Presenter

Email: jimw13159@gmail.com

Workshop Downloads at: <http://www.interventioncentral.org/positivebehavior>

Workshop PPTs and handout available at:

<http://www.interventioncentral.org/positivebehavior>

RTI-Behavior Needs Assessment. What issue(s) relating to student behavior and social-emotional functioning present the greatest challenge(s) to your school?





RTI-B Needs Assessment: Rationale

- Schools have limited resources to implement RTI for behavioral and social-emotional issues.

They should, therefore, conduct an RTI-Behavior **needs assessment** to better understand what goals to work toward, how to allocate their limited resources, and how to prioritize their efforts.

RTI-B: Issues in Behavioral and Social-Emotional Functioning

1. **Disruptive Classroom Behaviors.** Problem behaviors in the classroom commonly interfere with effective instruction. 
2. **Bullying.** Bullying and related hidden ('covert') student behaviors create an emotionally unsafe atmosphere for a substantial number of learners. 

RTI-B: Issues in Behavioral and Social-Emotional Functioning

3. **Motivation.** Limited student motivation interferes significantly with academic performance and learning.



4. **'High-Amplitude' Behaviors.** A small number of students with more severe behaviors ties up a large share of school support and intervention resources.



RTI-B: Issues in Behavioral and Social-Emotional Functioning

5. **Variability of Behavior-Management Skills.**

Teachers and other educators (e.g., paraprofessionals) vary in their knowledge of-- and/or willingness to implement--positive behavior management practices.



- ### 6. **Inconsistency in Supporting Students with Intensive Needs.** For students with more significant challenging behaviors, there are disconnects across staff, problem-solving groups, and time. These disconnects result in lack of coordination, communication, and consistent delivery of behavior-support services.

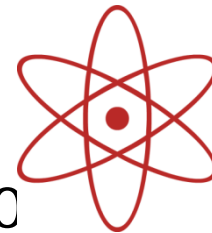


RTI-B: Issues in Behavioral and Social-Emotional Functioning

7. **Differing Philosophies about Behavior Management.** Staff are divided between 'reactive/punitive' and 'pro-active/positive' viewpoints about how to manage student misbehavior.



8. **No Decision Rules for Behavioral 'Non-Responders'.** The district has no formal guidelines for judging when a general-education student on a behavior-intervention plan is a 'non-responder' and may require special education services.



RTI-B: Issues in Behavioral and Social-Emotional Functioning

9. **No Data on Behavioral Interventions.** Staff lack an understanding of how to set goals and what data to collect when monitoring student progress on behavioral interventions.



10. **Vague Descriptions of Student Problems.** Educators find it difficult to define a student's primary behavior problem in clear and specific terms: "If you can't name the problem, you can't fix it."



Activity: Behavior Needs Assessment

In your groups:

- Discuss these 10 behavioral needs-assessment items with your team (pp. 33-34)
- CIRCLE the TOP 2-3 items from this list that you feel MOST impact your school or district.

Behavioral Needs-Assessment Items:

1. Disruptive Classroom Behaviors
2. Bullying
3. Limited motivation
4. High-Amplitude Behaviors
5. Variability of Behavior Management Skills
6. Inconsistency in Supporting Students with Intensive Needs
7. Differing Philosophies About Behavior Management
8. No Decision Rules for Behavioral 'Non-Responders'.
9. No Data on Behavioral Interventions
10. Vague Descriptions of Student Problems

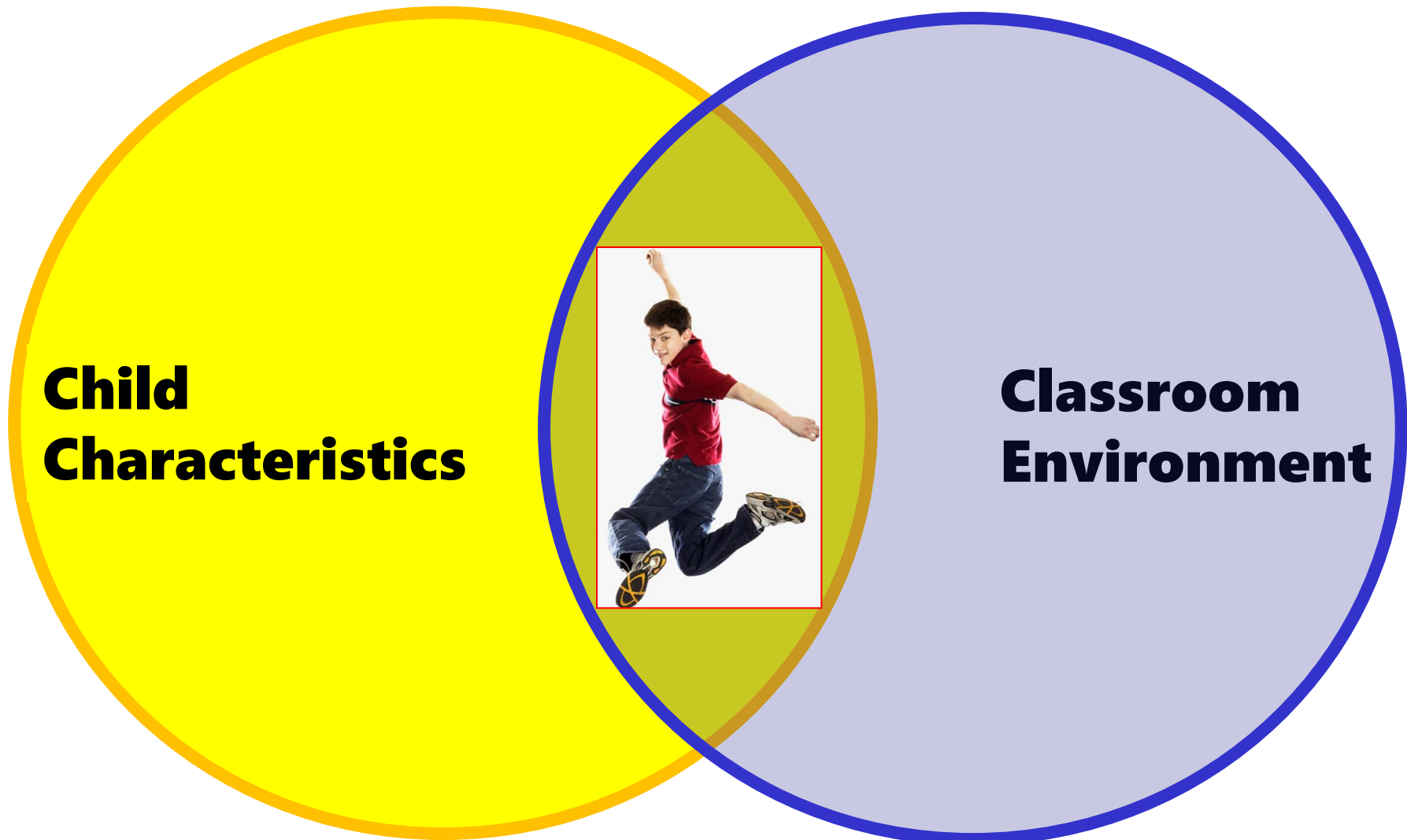


*Big Ideas in
Behavior
Management.*



What key concepts can lay the groundwork for teacher success in managing challenging behaviors?
(Handout 2; pp. 2-3)

Behavior in the Classroom: A Product of...



**Child
Characteristics**

**Classroom
Environment**



'Big Ideas' in Behavior Management...

- *Teach expected behaviors.* Students need to be explicitly taught expected behaviors. They should then be acknowledged and reinforced when they show positive behaviors.

In other words, schools should treat behavior as part of the curriculum: teach it and reinforce it!



'Big Ideas' in Behavior Management...

- *Check for academic problems.* The connection between classroom misbehavior and poor academic skills is high.

Educators should routinely assess a student's academic skills as a first step when attempting to explain why a particular behavior is occurring.

If academics contribute to problem behaviors, the student needs an academic support plan as part of his or her behavior plan.

2

'Big Ideas' in Behavior Management...

- *Identify the underlying function of the behavior.*
Problem behaviors occur for a reason. Such behaviors serve a **function** for the student.

When an educator can identify the probable function sustaining a student's challenging behaviors, the educator can select successful intervention strategies that match the function—and meet the student's needs.

Problem Behaviors: Common Reasons

- **SKILL DEFICIT.** The student lacks the skills necessary to display the desired behavior (Gable et al., 2009).
- **PERFORMANCE DEFICIT.** The student possesses the skills necessary to display the desired behavior but lacks incentive to do so (Gable et al., 2009).
- **ACCESS TO TANGIBLES/ EDIBLES/ACTIVITIES.** The student seeks access to preferred objects ('tangibles'), food, or activities (Kazdin, 2001).
- **PEER ATTENTION.** The student is seeking the attention of other students (Packenham, Shute & Reid, 2004).
- **ADULT ATTENTION.** The student is seeking the attention of adults (Packenham, Shute & Reid, 2004).
- **ESCAPE/AVOIDANCE.** The student is seeking to escape or avoid a task or situation (Witt, Daly & Noell, 2000).
- **EMOTIONAL or ATTENTIONAL BLOCKERS.** The student possesses the skills to display the desired behavior "but is unable to deal with competing forces—anger, frustration, fatigue." (Gable et al., 2009; p. 197). (This category can also include symptoms associated with anxiety or ADHD.)

'Big Ideas' in Behavior Management...

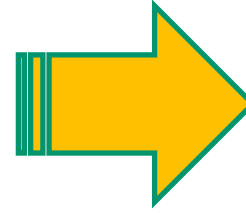
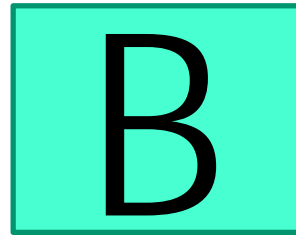
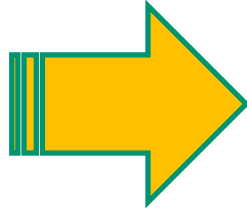
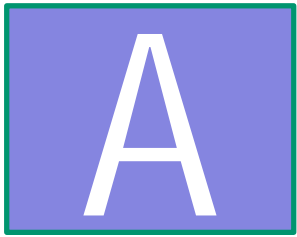
- *Eliminate behavioral triggers.* Problem behaviors are often set off by events or conditions within the classroom.

Sitting next to a distracting classmate or being handed an academic task that is too difficult to complete are two examples of events that might trigger student misbehavior.

When the educator is able to identify and eliminate triggers of negative conduct, such actions tend to work quickly and--by preventing class disruptions--result in more time available for instruction.

4

ABC Timeline: Antecedent-Behavior-Consequence



Antecedents. Stimuli, settings, and contexts that occur *before* and influence ('trigger') behaviors.

Behaviors. Observable acts carried out (or not carried out) by individuals.

Consequences. Events that *follow* behavior and may include influences that increase, decrease, or have no impact on the behavior.

Examples.

- Instructions
- Gestures
- Looks from others

Examples.

- Engaging in classwork
- Calling out
- Not doing homework

Examples.

- Teacher praise for student behavior
- Loss of free time for non-compliance

'Big Ideas' in Behavior Management...

- *Focus on factors within the school's control.* Educators recognize that students often face significant factors outside of the school setting--e.g., limited parental support -- that can place them at heightened risk for academic failure and problem behaviors.

Schools can best counteract the influence of negative outside factors and promote student resilience by focusing on what can be provided *within* the educational setting such as skills instruction, tutoring, mentoring, and use of positive behavior management strategies.

'Big Ideas' in Behavior Management...

- *Be flexible in responding to misbehavior.* Educators have greater success in managing the full spectrum of student misbehaviors when they respond flexibly-- evaluating each individual case and applying strategies that logically address the likely cause(s) of that student's problem conduct.



Building the Behavior/Social-Emotional Toolkit. What are research-based strategies that can help teachers to motivate students and decrease problem behaviors?





Behavior Toolkit (Handout 2; pp. 9-18)

A Toolkit: 38 Classroom Ideas to Help Students to Make Better Behavioral Choices

Behavior intervention plans are highly individualized—because every student displays a unique profile of behaviors. However, teachers will find that their chances of helping a student to engage in positive behaviors increase when they include each of these 3 elements in their classroom behavior intervention plans:

1. Antecedents: Strategies to promote positive behaviors and prevent misbehavior
2. Positive consequences: Responses that increase positive/goal behaviors
3. Extinction procedures: Responses that extinguish problem behaviors

Every one of these elements plays a crucial role in promoting the success of a behavior plan. Antecedent strategies prevent the student from engaging in problem behaviors in the first place. Positive consequences motivate the student to show desired behaviors, such as academic engagement. Extinction procedures remove the 'pay-off' to the student for engaging in problem behaviors. While any one of the elements might be inadequate to change the student's behavior, the combination of antecedents, positive consequences, and extinction procedures can result in a strong, flexible plan and successful intervention outcome.

Teachers can use this guide to build their own behavior plans using its research-based ideas for antecedents, positive consequences, and extinction procedures.

1. Antecedents: Strategies to Prevent Misbehavior

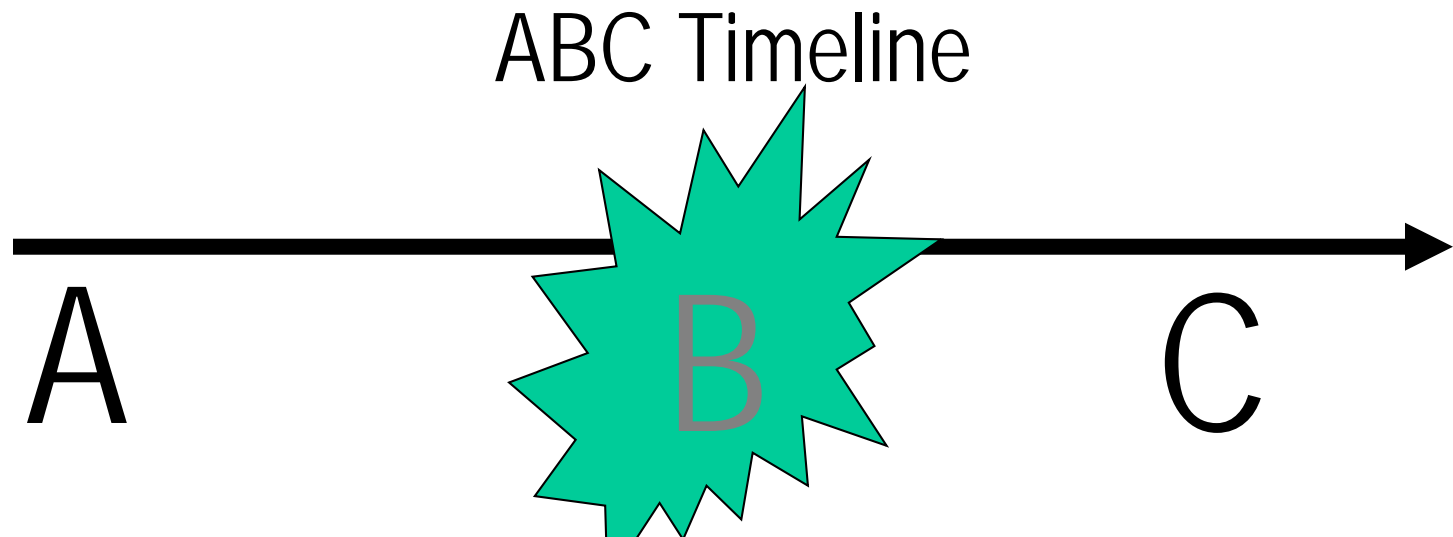
Teachers have the greatest array of options to influence a student to engage in positive behaviors when they focus on antecedents: actions they take before the student behavior occurs. Proactive antecedent actions to encourage desired behaviors are often quick-acting, can prevent misbehavior and attendant interruption of instruction, and usually require less teacher effort than providing corrective consequences after problem behaviors have occurred. Teacher strategies to elicit positive student behaviors include making instructional adjustments, providing student prompts and reminders, and teaching students to monitor and evaluate their work performance. Here are specific antecedent ideas that teachers can use to 'nudge' students to engage in desired behaviors:

Antecedents That Prevent Problem Behaviors

- Behaviors: Teach Expectations** (Fairbanks, Sugai, Guardino, & Lathrop, 2007). Students must be explicitly taught behavioral expectations before they can be held accountable for those behaviors. The teacher should model positive behaviors, give students examples and non-examples of appropriate behaviors to clarify understanding, have students practice those behaviors with instructor feedback; and consistently acknowledge and praise students for successfully displaying positive behaviors.
- Instructional Match: Ensure the Student Can Do the Work** (Burns, VanDerHeyden, & Boice, 2008). Student misbehavior frequently arises from an inability to do the academic task. When the student lacks skills necessary for the academic task, the instructor teaches the necessary skill(s). Additional strategies include adjusting the immediate task to the student's current skill(s) and pairing the student with a helping peer.

ABC Time-line

The ABC (Antecedent-Behavior-Consequence) timeline shows the elements that contribute to student behaviors: (a) the **A**ntecedent, or trigger; (b) the student **B**ehavior; and (c) the **C**onsequence of that behavior.



Extinction Procedures: REDUCE or ELIMINATE Behaviors

Planned Ignoring: Turn Off the Attention (Colvin, 2009). In planned ignoring, the instructor withholds attention when the student engages in the problem behavior. Ignoring problem behavior can remove the source of its reinforcement and thus help to extinguish it.

Teachers should remember, though, that planned ignoring alone is seldom successful. Instead, planned ignoring becomes much more powerful when, at the same time, the teacher provides regular attention whenever the student engages in positive, replacement behaviors.

Positive Consequences: INCREASE Positive/Goal Behaviors


Scheduled Attention: Rechannel Adult Interactions (Austin & Soeda, 2008). A strategy to increase positive behaviors is to 'catch the student being good' with regular doses of 'scheduled attention': (1) The teacher decides on a fixed-interval schedule to provide attention (e.g., every 8 minutes); (2) At each interval, the teacher observes the student; (3) If the student is engaged in appropriate behaviors at that moment, the teacher provides a dose of positive attention (e.g., verbal praise; non-verbal praise such as thumbs-up; brief positive conversation; encouragement). If off-task or not behaving appropriately, the teacher briefly redirects the student to task and returns immediately to instruction until the next scheduled-attention interval.

Activity: Select Strategies for Your Classroom

Look over the behavior-management ideas in Handout 2:

- **Group 1:** Antecedents: Strategies: pp. 9-11
- **Group 2:** Antecedent Strategies/Positive Consequences: pp. 12-13
- **Group 3:** Extinction Procedures: pp. 14-16

Select 1-2 ideas to recommend to teachers in your school/district.

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Ingredients for Creating a Better Behavior

Antecedents, Positive Consequences, and Extinction Procedures

Behavior intervention plans are highly individualized—because every student is different. However, teachers will find that their chances of helping a student to change their behavior increase when they include each of these 3 elements in their classroom behavior intervention plan:

1. **Antecedents:** Strategies to promote positive behaviors and prevent problem behaviors.
2. **Positive consequences:** Responses that increase positive/desired behaviors.
3. **Extinction procedures:** Responses that extinguish problem behaviors.


Every one of these elements plays a crucial role in promoting the success of a behavior plan. Antecedent strategies prevent the student from engaging in problem behaviors in the first place. Positive consequences motivate the student to show desired behaviors, such as academic engagement. Extinction procedures remove the 'pay-off' to the student for engaging in problem behaviors. While any one of the elements might be inadequate to change the student's behavior, the combination of antecedents, positive consequences, and extinction procedures can result in a strong, flexible plan and successful intervention outcome.

Teachers can use this guide to build their own behavior plans using its research-based ideas for antecedents, positive consequences, and extinction procedures.

NOTE: These abbreviations appear in the handout: ADHD (Attention-Deficit Hyperactivity Disorder); ODD (Oppositional Defiant Disorder); GAD (Generalized Anxiety Disorder)

1. *Antecedents:* Strategies to Prevent Misbehavior

Teachers have the greatest array of options to influence a student to engage in positive behaviors when they focus on antecedents: actions they take before the student behavior occurs. Proactive antecedent actions to encourage desired behaviors are often quick-acting, can prevent misbehavior and attendant interruption of instruction, and usually require less teacher effort than providing corrective consequences after problem behaviors have occurred. Teacher strategies to elicit positive student behaviors include making instructional adjustments, providing student prompts and reminders, and teaching students to monitor and evaluate their work performance. Here are specific antecedent ideas that teachers can use to 'nudge' students to engage in desired behaviors:



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10-Minute 'Count Down' Timer

10:00

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Antecedents That Prevent Problem Behaviors

- ADHD:ODD:GAD: Behaviors: Teach Expectations** (Fairbanks, Sugai, Guardino, & Lathrop, 2007). Students must be explicitly taught behavioral expectations before they can be held accountable for those behaviors. The teacher should model positive behaviors, give students examples and non-examples of appropriate behaviors to clarify understanding, have students practice those behaviors with instructor feedback; and consistently acknowledge and praise students for successfully displaying positive behaviors.
- ADHD:ODD:GAD: Instructional Match: Ensure the Student Can Do the Work** (Burns, VanDerHeyden, & Boice, 2008). Student misbehavior frequently arises from an inability to do the academic task. When the student

Activity: What Are Your Next Steps?

Identify 2-3 'next steps' to use key ideas and resources from this data-collection training back in your classroom or school.

