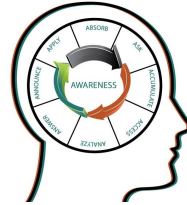




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Develop Your Data Mindset

Module 8 - Progress Monitoring Part 11 - Absorb, Ask, Accumulate & Access (Cycle 5 - Evaluate Impact of Intervention)

By Nathan Anderson, Amy Ova, Wendy Oliver, and Derrick Greer

Learning Goals

- Implement A+ Inquiry to evaluate -- and take action based on -- the impact of an intervention on a student

SLDS Data Use Standards

- K.1.A Question Formation: Knows which questions can be answered with data and how to identify the nature and extent of the data needed to answer questions
- K.1.C Types of Data: Knows that data come in two main forms—quantitative and qualitative—and that, within these forms, there are other categories
- K.1.F Data Sources: Knows different types of data sources and the benefits and limitations of using each
- K.2.D Data Context: Knows the circumstances and purposes for which data are collected
- K.3.B Data Limitations: Knows that data have limitations and that these limitations affect the interpretation and usefulness of data
- S.3.B Technology: Uses appropriate technologies to collect, access, and store data

SLDS Data Use Standards (continued)

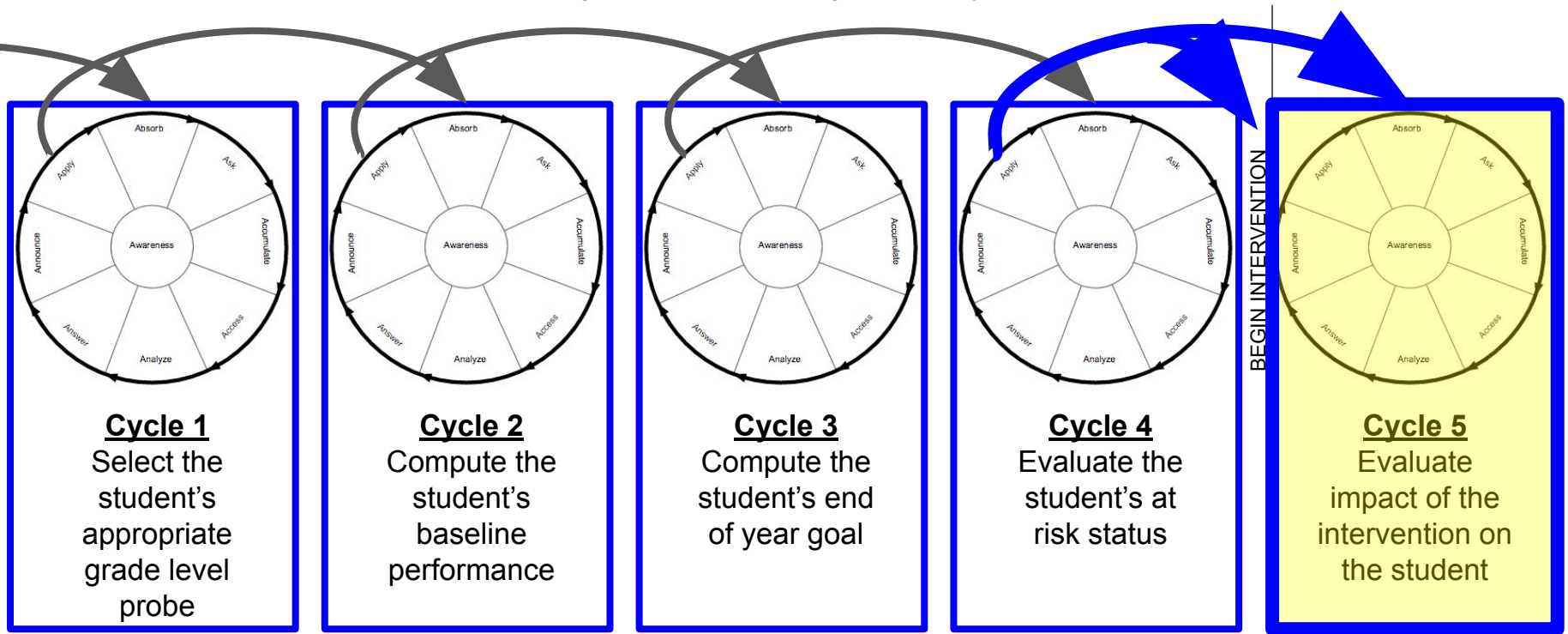
- S.4.C Aligned Analysis: Using appropriate technologies, conducts ANALYSIS suitable for the type of data collected, the VARIABLES identified, and the questions or hypotheses posed
- S.5.C Patterns: Identifies patterns, TRENDS, and gaps in data and suggests reasons for their occurrence
- S.6.C. Multiple Audiences: Communicates effectively about data, interprets FINDINGS, and explains progress toward goals to a variety of constituent groups (e.g., students, families, and colleagues)
- S.7.A Strategies: Identifies appropriate strategies grounded in evidence to address the needs and goals identified during data ANALYSIS

Introduction

Ryan:

Now that you have confirmed the student's at-risk status and assigned an intervention in Cycle 4, you may proceed to the next cycle of evaluating the intervention's impact on the student.

Progress Monitoring Data Cycles



Determining the appropriate grade level probe for a student needs to occur before establishing a student's baseline performance. Establishing a student's baseline needs to occur before determining the student's end of year goal. Determining the student's end of year goal needs to occur before confirming or disconfirming the student's at risk status. Confirming or disconfirming a student's at risk status needs to occur before monitoring a student's progress toward the goal.

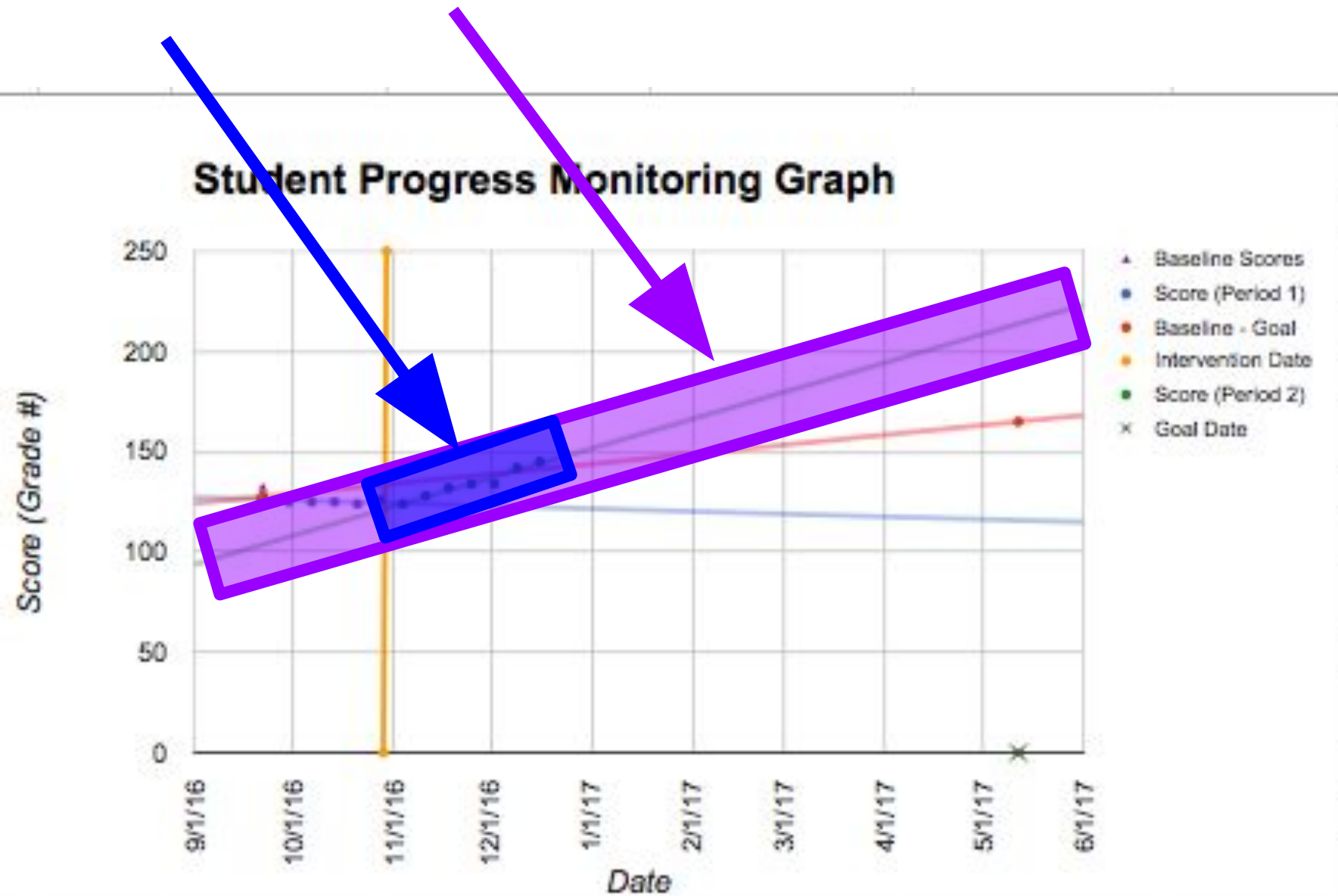
Whose progress should be monitored? An individual "at risk" student

When should the first progress monitoring data cycle begin? After a student has been identified as potentially "at risk" through a universal screening process

When should an intervention be assigned? After confirming a student's "at risk" status (i.e. after Cycle 4)

What are some tools available for progress monitoring? Aimsweb, Edcheckup, DIBELS, easyCBM, FAST, istation, STAR (see more details at <http://www.intensiveintervention.org/chart/progress-monitoring>)

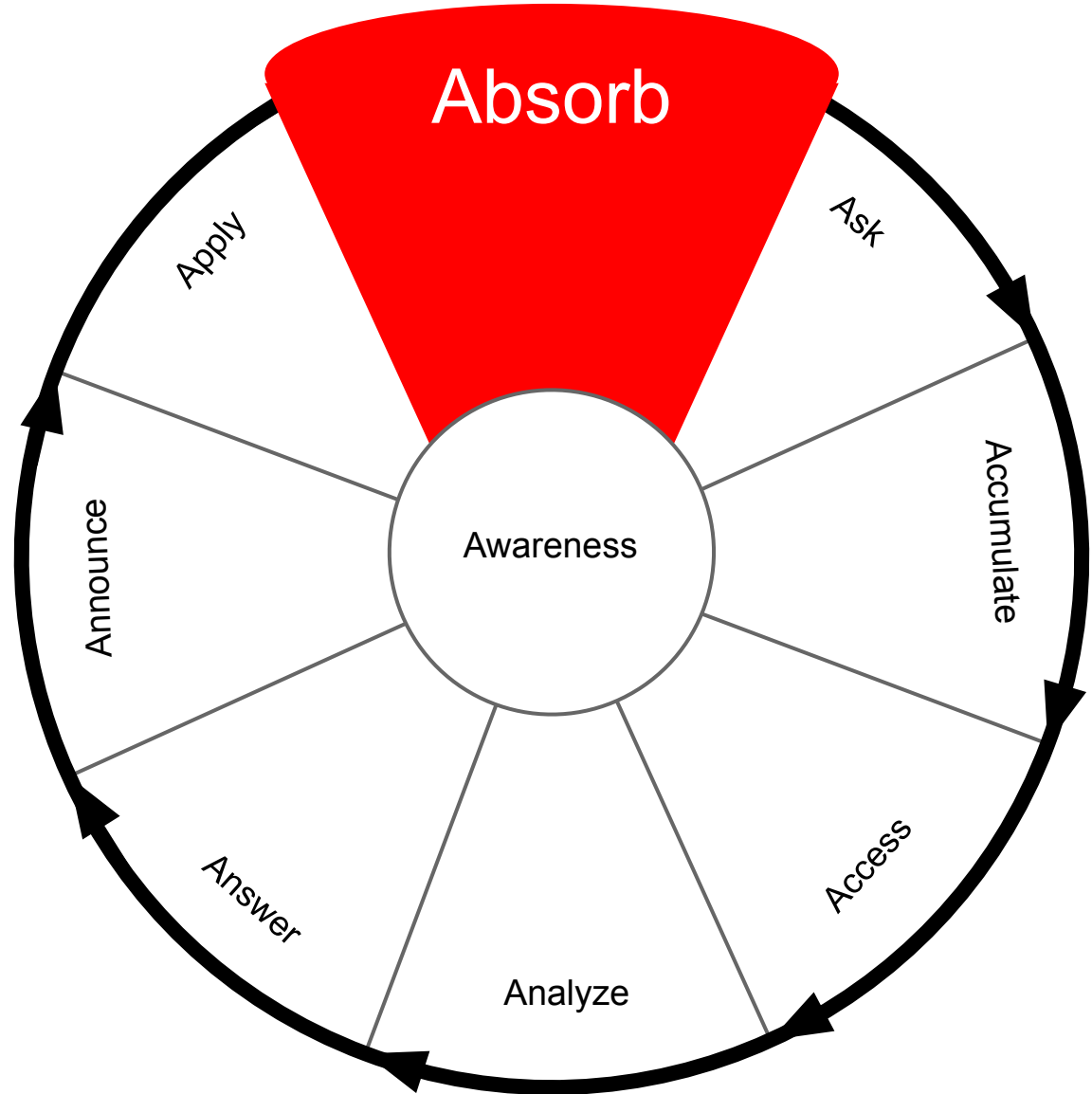
Cycle 5 is required to plot the data points and draw the trend line during the intervention

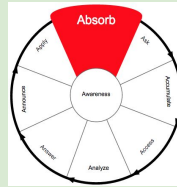


Absorb Stage

Ryan:

Let's begin in the Absorb stage where you identify information that is known about a context and reveal a need for more knowledge.



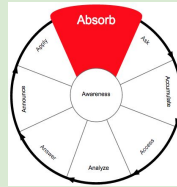


Activity - 08.11.01

In the Absorb stage, it's important to _____.

- identify details that are known about the context
- formulate operationalized questions
- collect data
- retrieve data that have been collected

Standard: K.2.D Data Context

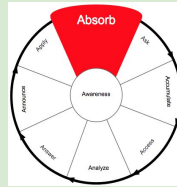


Activity - 08.11.02

In the Absorb stage, it's also important to _____.

- reveal a need for more knowledge relevant to the context
- begin identifying limitations of data analysis findings
- communicate results to applicable stakeholders
- administer a data collection instrument to participants in the study

Standard: K.2.D Data Context



Activity - 08.11.03

You know Lisa Lund was identified as potentially at-risk through the universal screening process. As a result she was targeted for an additional stage of screening through Oral Reading Fluency (ORF) progress monitoring. You know she's capable of being assessed with an ORF probe at her current grade level. Her ORF baseline and goal levels are known. Her risk status was confirmed, and she was assigned a "listening passage preview" intervention. Next, you need to know _____.

- whether Lisa is making adequate progress toward her goal during the intervention period
- how well Lisa's classmates are performing
- whether the percentage of proficient students in Lisa's class is changing
- the average scale score of students at the next grade level on the district's interim reading assessment

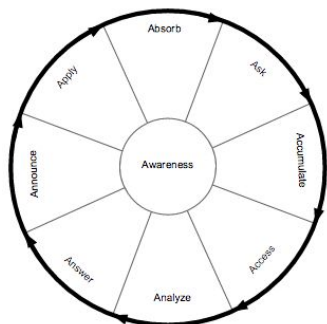
Standard: K.2.D Data Context

Tutorial

In the Absorb stage, you identify details that are known about the context and reveal a need for more knowledge.

You know Lisa Lund was identified as potentially at-risk through the universal screening process. Consequently, she was targeted for an additional stage of screening through Oral Reading Fluency (ORF) progress monitoring. You know she's capable of being assessed with ORF probes at her current grade level, and you know her ORF baseline and goal values. Lisa's at-risk status was confirmed through progress monitoring and she was assigned a "listening passage preview" intervention.

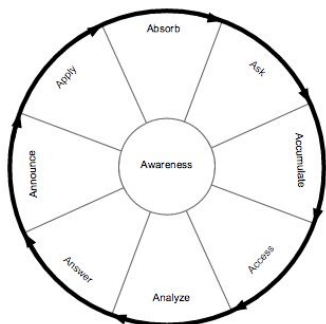
Tutorial



Cycle 1

Select the student's appropriate grade level probe

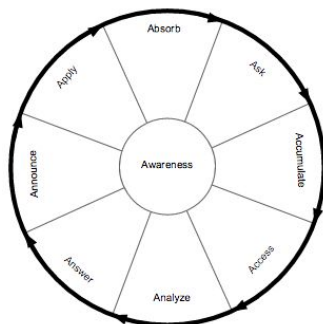
You know Lisa is capable of being assessed with ORF probes at current grade level



Cycle 2

Compute the student's baseline performance

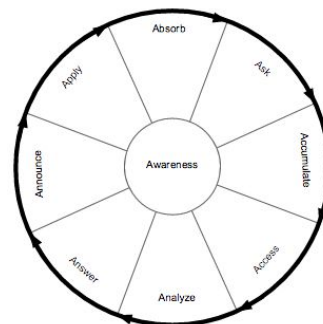
You know Lisa's ORF baseline



Cycle 3

Compute the student's end of year goal

You know Lisa's ORF end-of-year goal

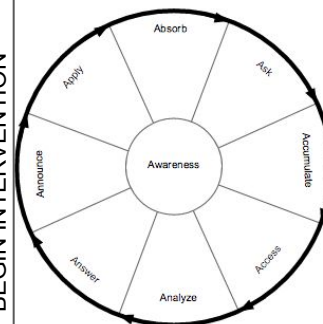


Cycle 4

Evaluate the student's at risk status

You know Lisa's risk status was confirmed and an intervention was assigned

BEGIN INTERVENTION



Cycle 5

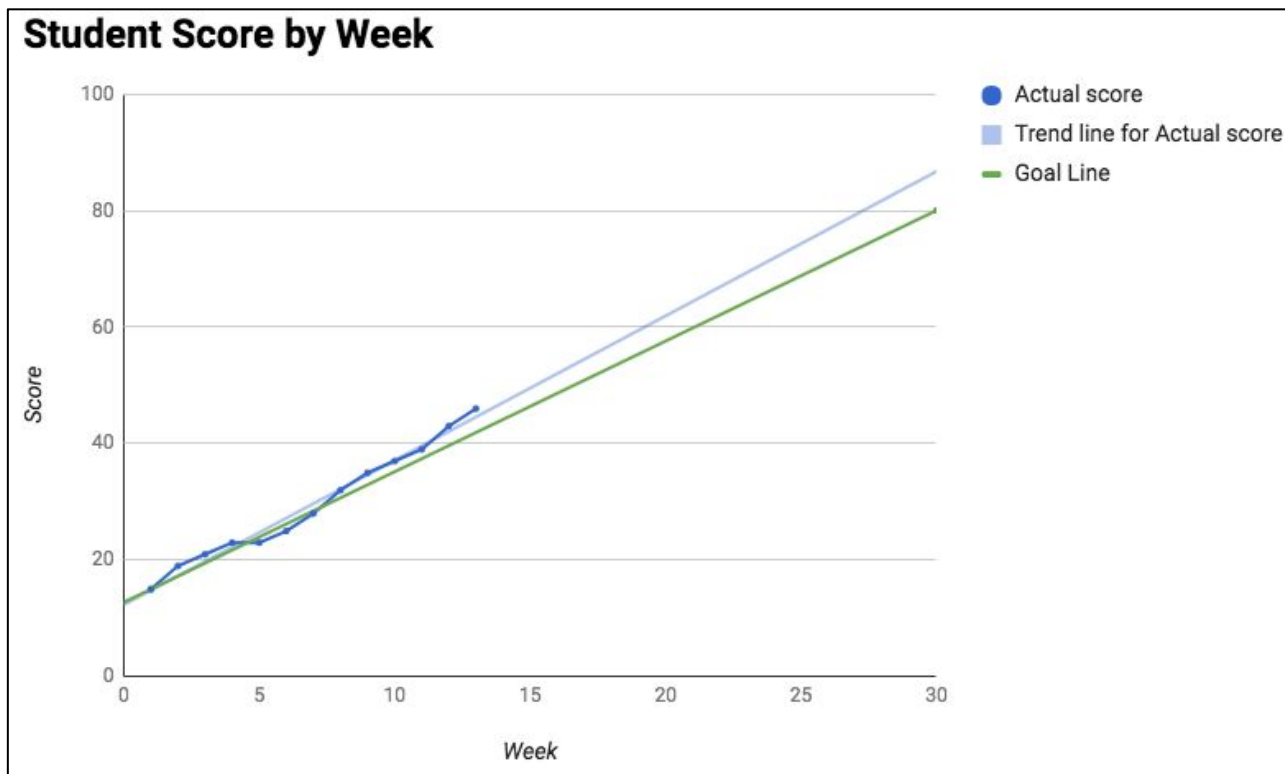
Evaluate impact of the intervention on the student

You NEED to know if Lisa is making adequate progress during the intervention

Tutorial

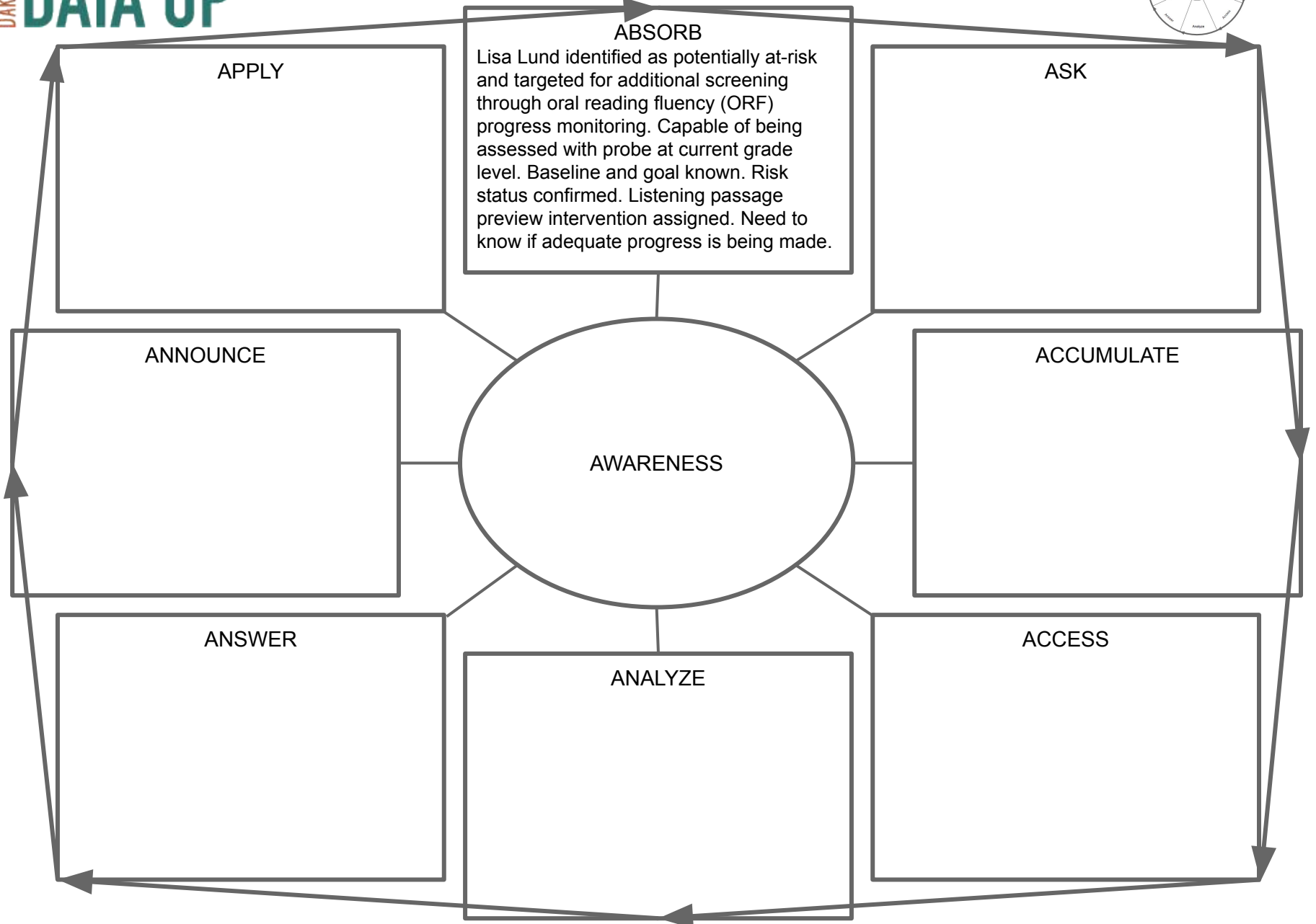
Given this context, it's important for you to know whether Lisa is making adequate progress toward her goal during the intervention period.

In the example chart displayed on this page, adequate progress is being made because the student's trend line (blue line) is more positively steeped than the goal line (i.e., green line).



A+ Inquiry Framework

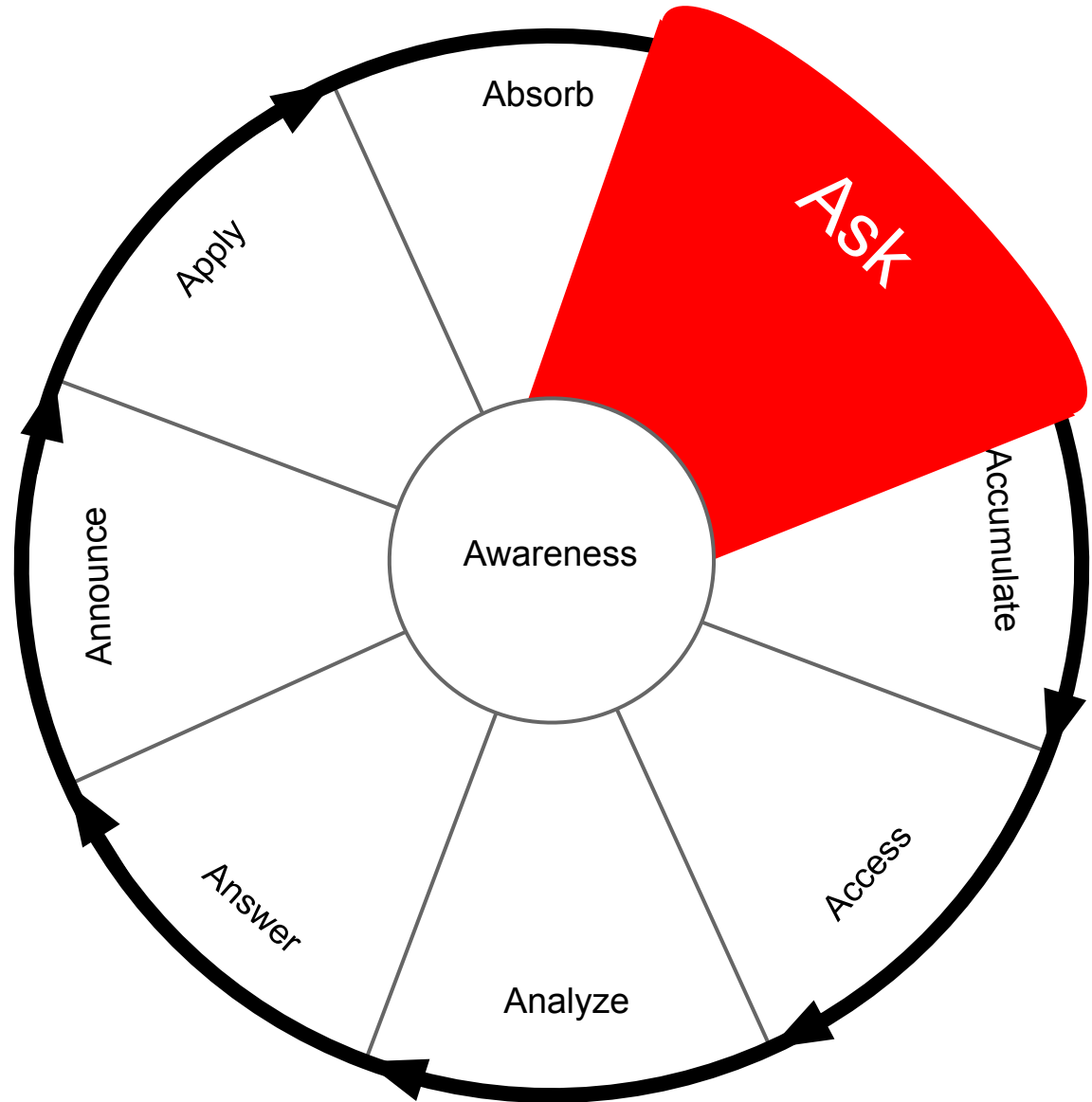
The Absorb stage has been completed. You understand the context and identified general details of missing information that could be revealed by data.



Ask Stage

Ryan:

Now that you are past the Absorb stage, let's see if you can ask operationalized or answerable questions, which will lead you to the information you need to know.





Activity - 08.11.04

The Absorb stage revealed a need for you to know whether Lisa is making adequate progress toward her end-of-year goal during the intervention period. You pose the following general question, “Is Lisa making adequate oral reading fluency (ORF) progress toward her goal during the intervention?” The general question needs to be operationalized further because it is currently too _____ to be answerable with data.

- vague
- precise
- accurate
- clear

Standard: K.1.A Question Formation



Activity - 08.11.05

The general question states, “Is Lisa making adequate oral reading fluency (ORF) progress toward her goal during the intervention?” You operationalize this question further by stating _____.

- Is Lisa’s ORF trend line slope during the intervention as positively steeped as or steeper than her goal line?
- How much has the slope of Lisa’s line changed since she started an intervention?
- What is the change in Lisa’s ORF performance since an intervention began?
- Is Lisa enjoying the intervention intended to improve her ORF performance?

Standard: K.1.A Question Formation



Activity - 08.11.06

The operational question you formulate serves as a(n) _____ the general question.

- proxy for
- ambiguous version of
- unanswerable version of
- vague replacement for

Standard: K.1.A Question Formation



Activity - 08.11.07

A potential answer to the general question, “Is Lisa making adequate oral reading fluency (ORF) progress in the general education setting?” and operational question, “Is the slope of Lisa’s ORF trend line as positively steeped or steeper than her goal line?” would be _____.

- “yes”, “no”, or “not sure”
- “green”, “red”, or “yellow”
- “-10%”, “0%”, or “10%”
- “positive”, “negative”, or “neutral”

Standard: K.1.A Question Formation

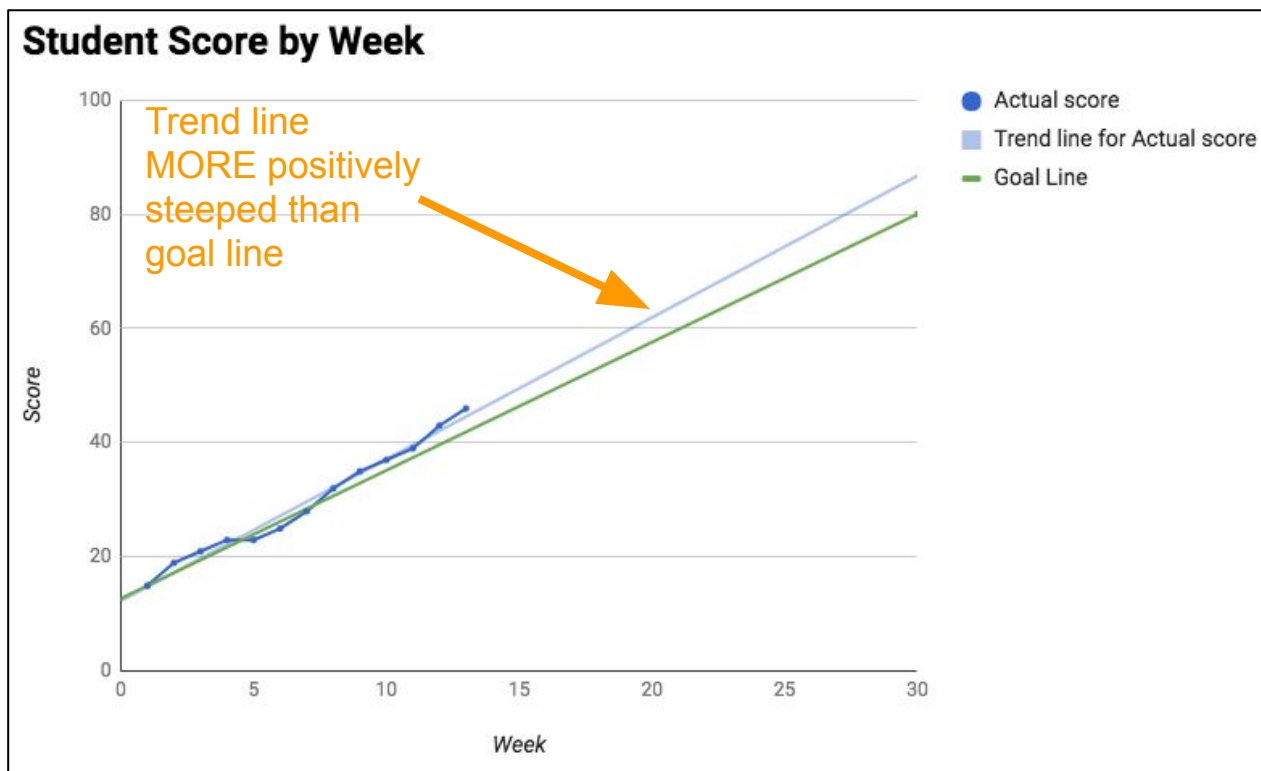
Tutorial

The Absorb stage revealed a need for you to know whether Lisa is making adequate progress toward her end-of-year goal during the intervention period. You pose the following general question, “Is Lisa making adequate oral reading fluency (ORF) progress toward her goal during the intervention?” As it is written, this question is too vague to be answered with data. Therefore, you operationalize the question further by stating “Is Lisa’s ORF trend line slope during the intervention as positively steeped as or steeper than her goal line?”

The operational question serves as a proxy for the general question. In other words, the operational question is written as a substitute for the general question to ensure the general question may be answered. Therefore, an answer of “yes”, “no”, or “not sure” will be the same for both the operational and general questions. For example, if the answer to the operational question is yes, the answer to the general question will also be yes.

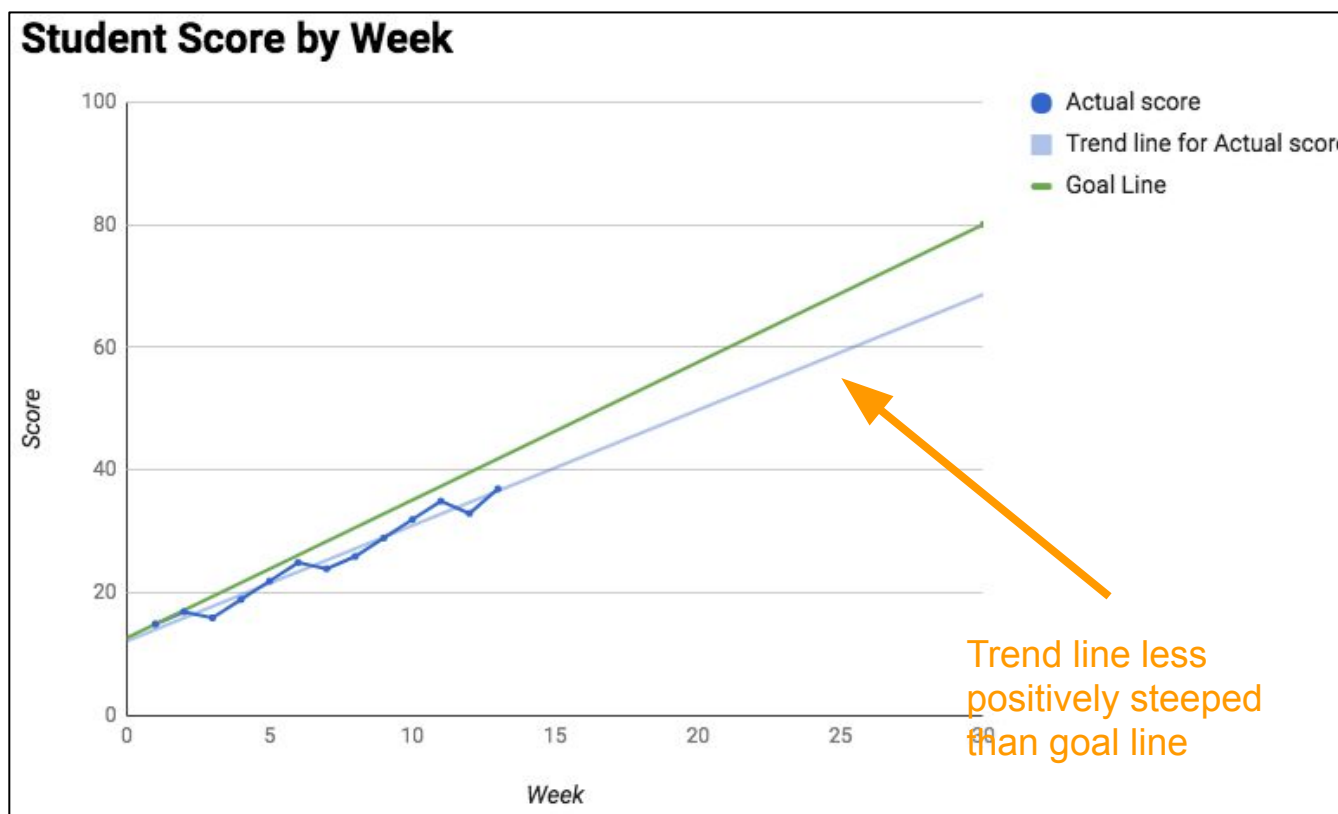
Tutorial

In this example, the student's trend line (light blue line) is MORE positively steeped than the student's goal line (green line). Therefore, the answer to the operational question, "Is the slope of Lisa's ORF trend line as positively steeped as or steeper than her goal line?" is YES. Because the operational question is an answerable substitute for the general question "Is Lisa making adequate oral reading fluency (ORF) progress in the general education setting?" the answer to the general question is also YES.



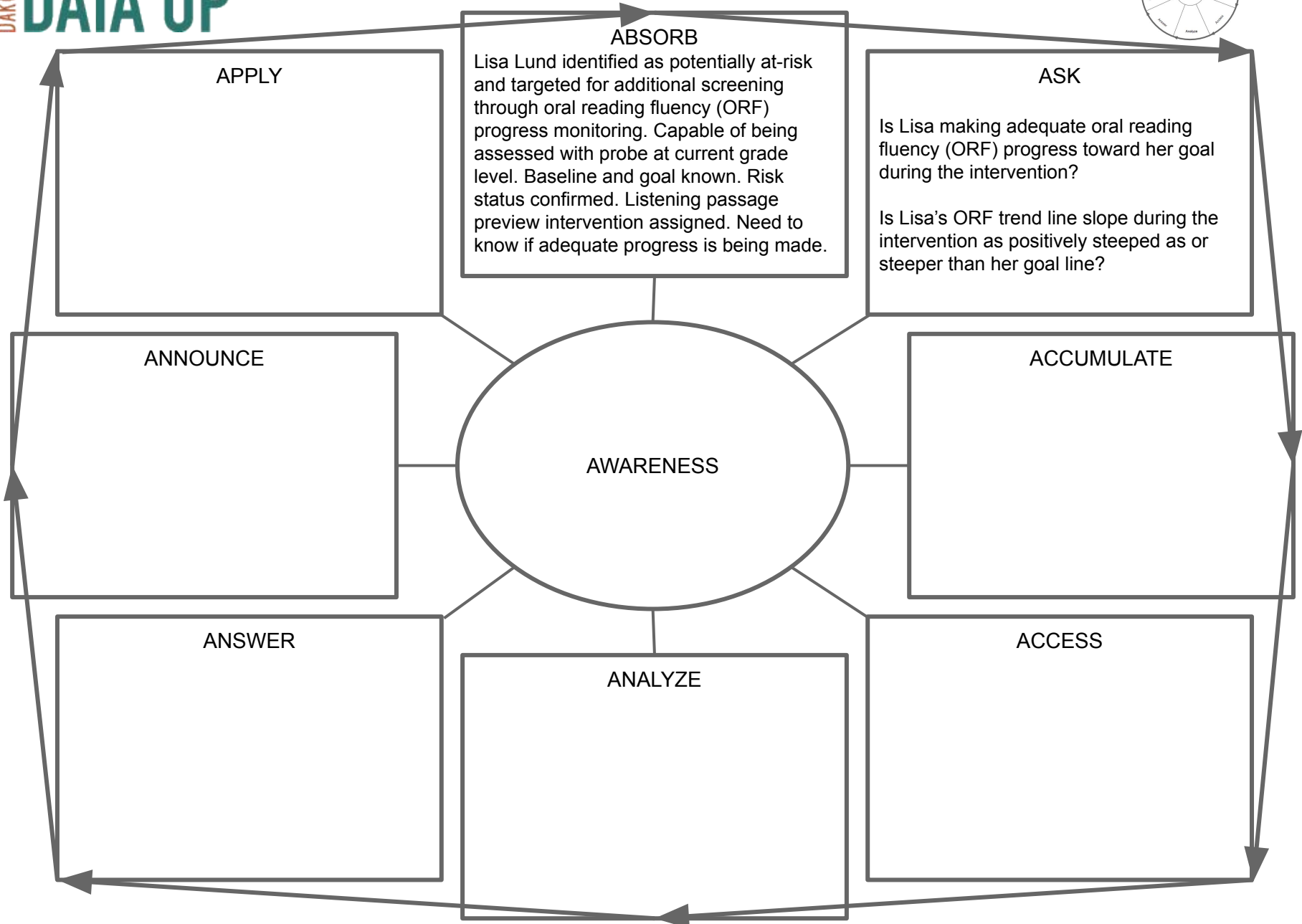
Tutorial

In this example, the student's trend line (light blue line) is LESS positively steeped than the student's goal line (green line). Therefore, the answer to the operational question, "Is the slope of Lisa's ORF trend line as positively steeped as or steeper than her goal line?" is NO. Because the operational question is an answerable substitute for the general question "Is Lisa making adequate oral reading fluency (ORF) progress in the general education setting?" the answer to the general question is also NO.



A+ Inquiry Framework

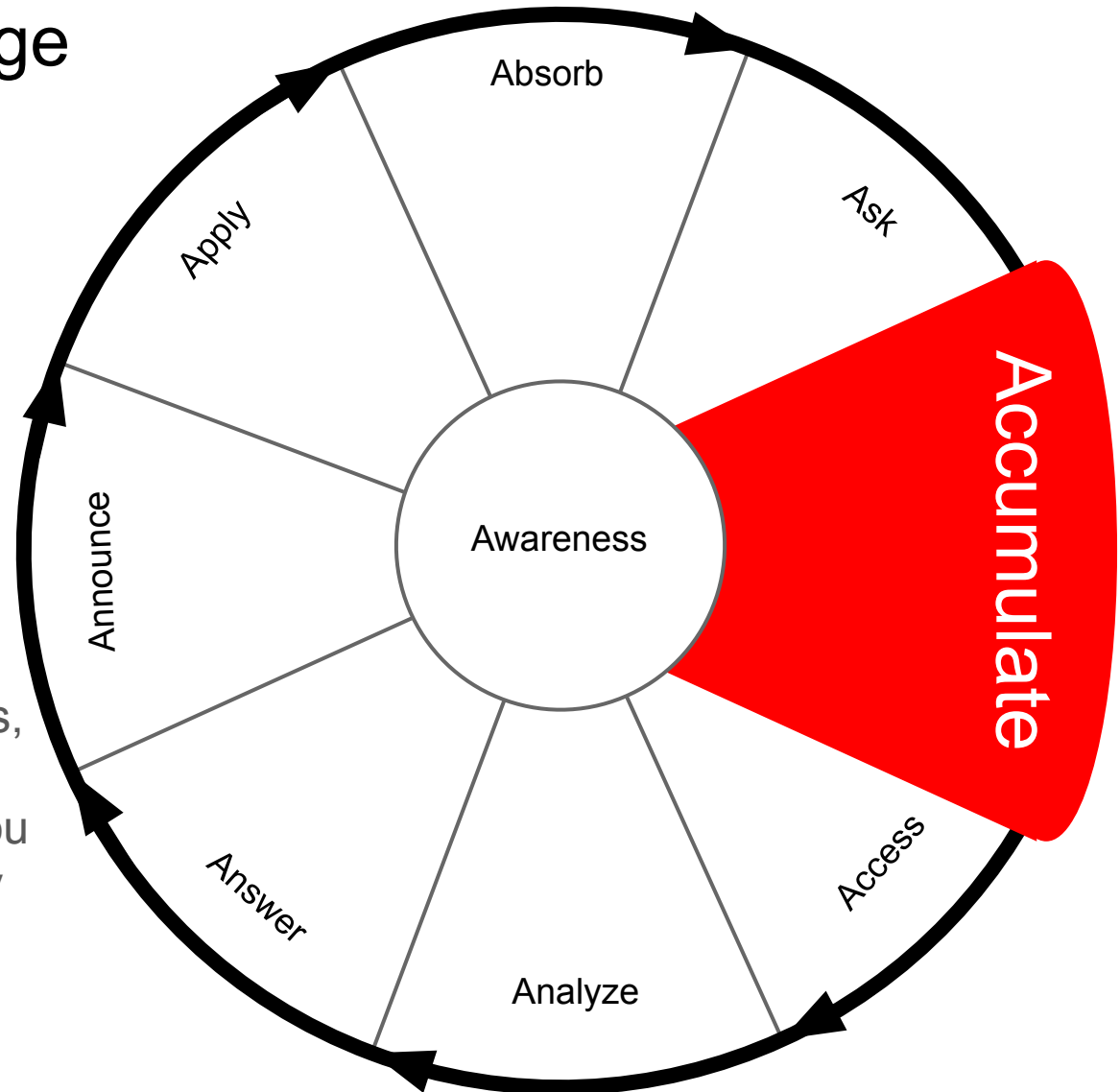
The Ask stage has been completed. You posed questions that will lead you to the information identified as missing in the Absorb stage.



Accumulate Stage

Ryan:

Now it's time to enter the Accumulate stage where you will identify details of data required to answer the questions you posed in the Ask stage. When formulating the operationalized questions, you demonstrated an awareness of the data you need. Here, you'll specify a few more details of the data, which will help ensure you retrieve the appropriate data in the Access stage.





Activity - 08.11.08

During the Ask stage, you demonstrated an awareness of the required data when you formulated the operational question. According to standard protocol at Great Plains school district, you need _____ data point(s).

- 0
- 1
- 2
- 6

Standard: K.1.C Types of Data



Activity - 08.11.09

The data points you need represent Lisa's _____ on an oral reading fluency (ORF) probe.

- number of correct words per minute
- number of minutes spent reading
- number of sentences read per minute
- percent of correct words per minute

Standard: K.1.C Types of Data



Activity - 08.11.10

The data you accumulate when administering probes includes the number of total words read per minute and number of errors. These values are required to calculate the _____ on each probe.

- number of correct words per minute
- number of correct sentences per minute
- number of syllables read per minute
- number of complete paragraphs read per minute

Standard: K.1.C Types of Data



Activity - 08.11.11

You enter required data, along with the date the data were collected, into _____ after administering each probe.

- Lisa's progress monitoring spreadsheet
- Lisa's daily planner
- Lisa's demographic record in the district's student information system
- the district's monthly newsletter

Standard: S.3.B Technology

Tutorial

During the Ask stage, you demonstrated an awareness of the required data when you formulated the operational question. According to standard protocol at Great Plains school district, you need at least 6 data points during the intervention period representing Lisa's number of correct words per minute on an oral reading fluency (ORF) probe.

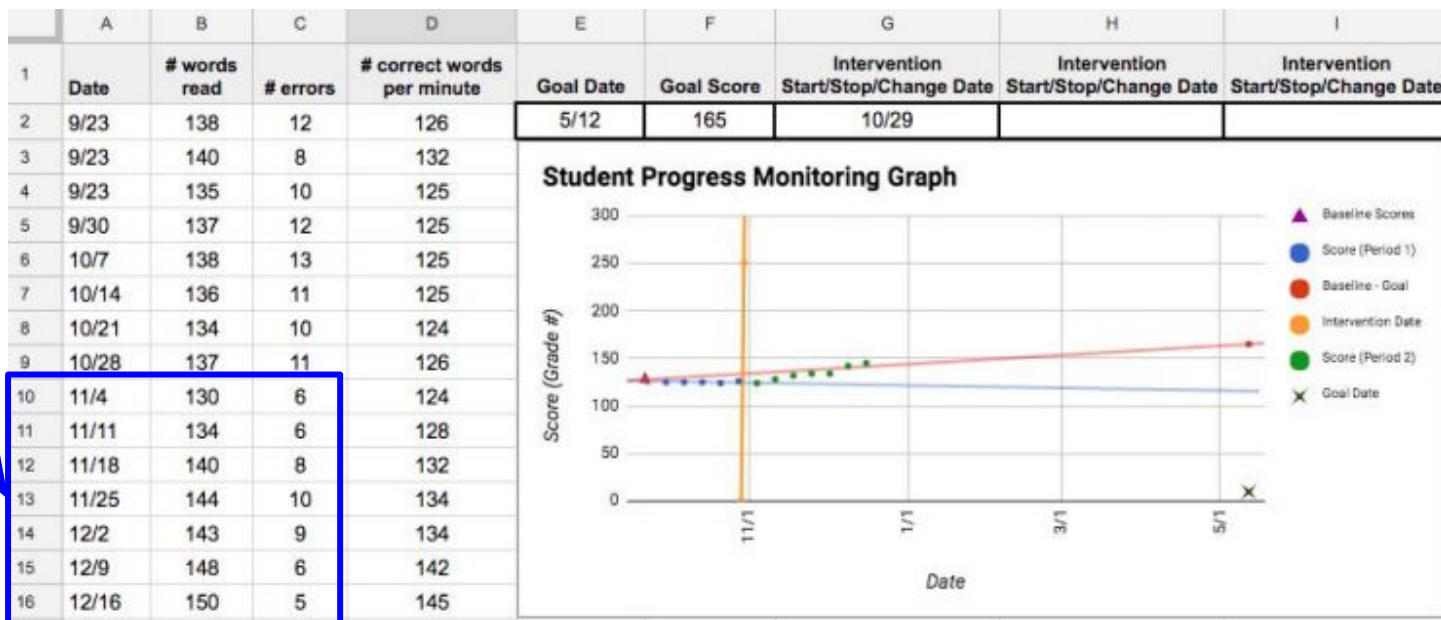
Tutorial

Although you only need 6 data points before you analyze the data, you end up establishing 7 data points by administering 1 ORF probe to Lisa each week for the next 7 weeks by the time you are ready to analyze the data. The data you accumulate when administering probes includes the number of total words read per minute and number of errors. These values, which you enter into Lisa's progress monitoring spreadsheet are required to calculate the number of correct words per minute on each probe.

Link to example of unmarked ORF probe PDF: <https://goo.gl/kSHa3f>

Link to spreadsheet PDF (DataCycle5NoTrend): <https://goo.gl/XyZFY3>

7 sets of weekly ORF data entered in spreadsheet

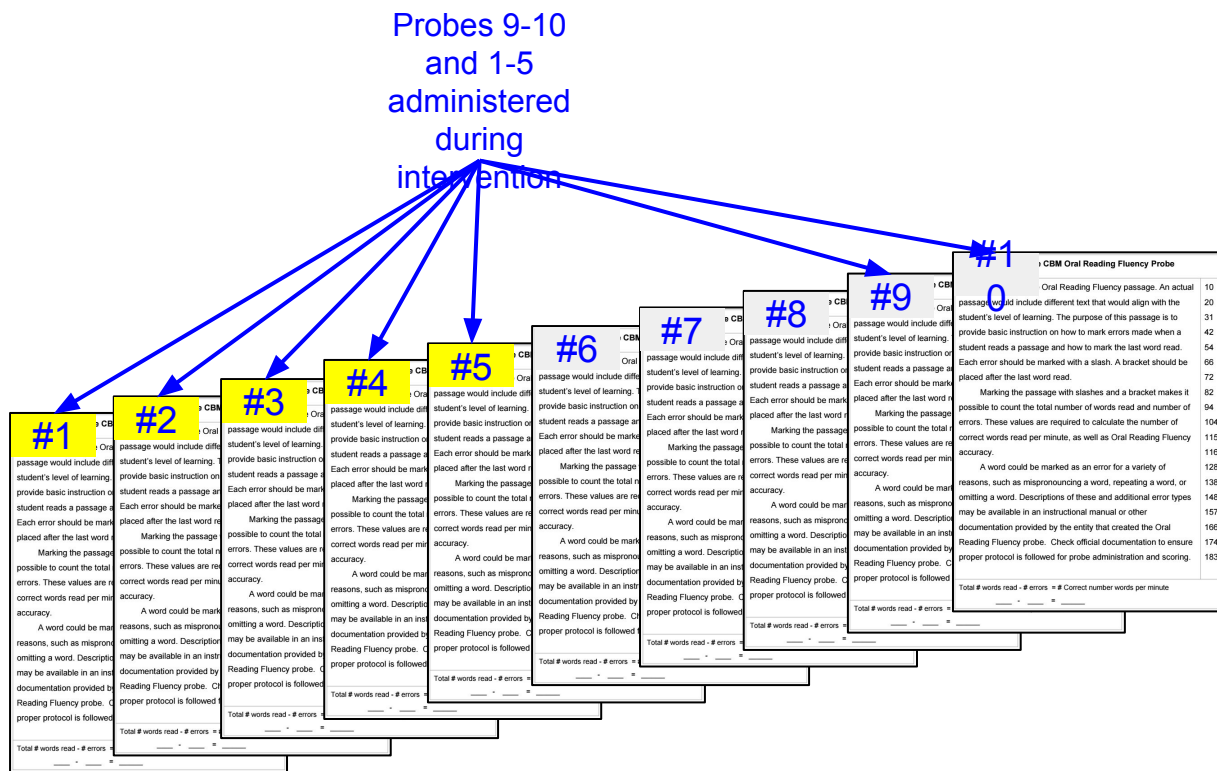


Tutorial

On a side note, there are only 10 unique ORF probes available for you to use; however, by this time, you will have administered 15 total probes

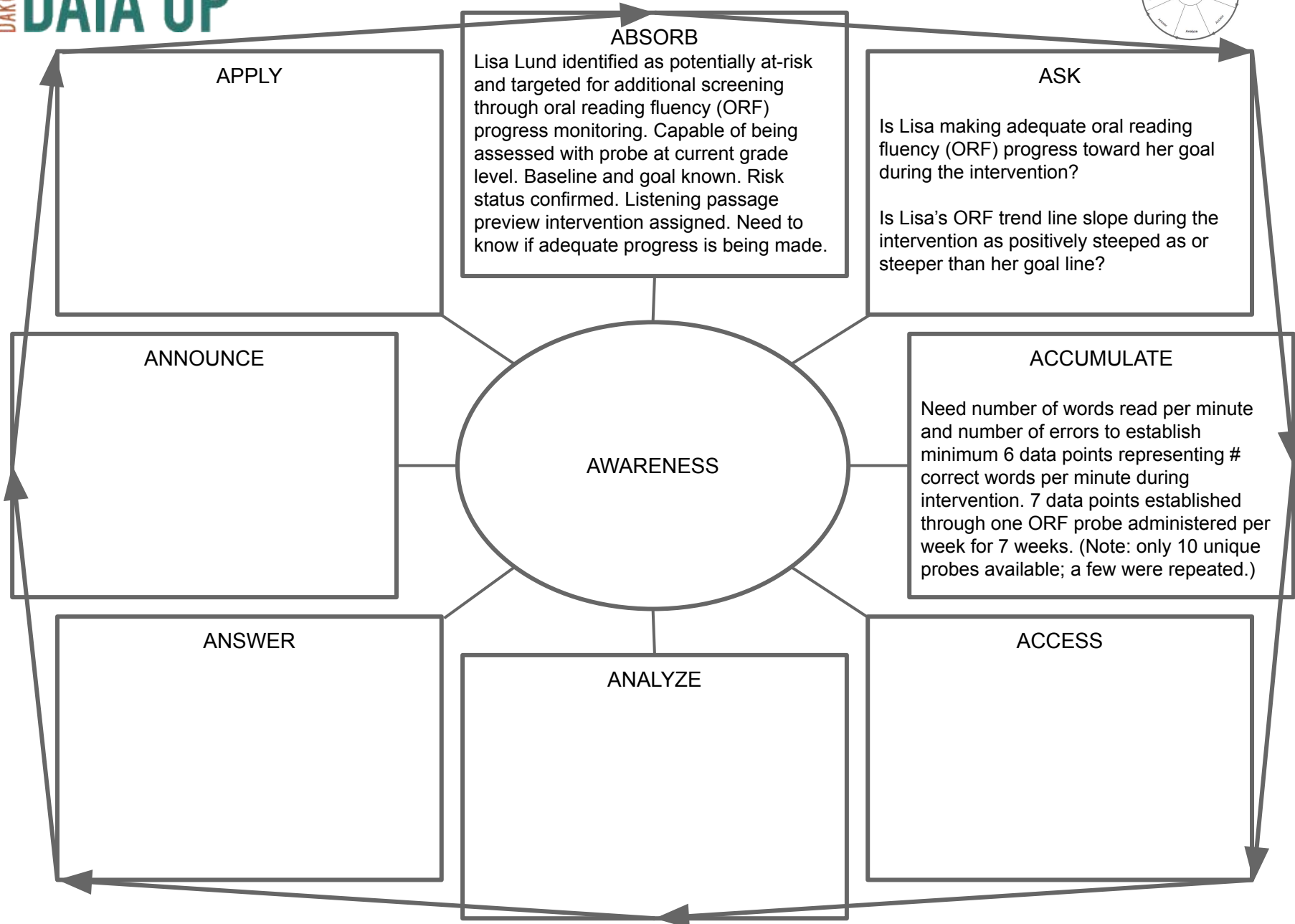
- 3 to establish the baseline (probes 1-3)
- 5 to complete progress monitoring prior to the intervention (probes 4-8)
- 7 to monitor progress during the intervention (probes 9-10, 1-5)

As a result, when administering probes during the intervention, you administer probes 1-5 a second time.



A+ Inquiry Framework

The Accumulate stage has been completed. You specified details of the data you need and collected the data.



ABSORB

Lisa Lund identified as potentially at-risk and targeted for additional screening through oral reading fluency (ORF) progress monitoring. Capable of being assessed with probe at current grade level. Baseline and goal known. Risk status confirmed. Listening passage preview intervention assigned. Need to know if adequate progress is being made.

ASK

Is Lisa making adequate oral reading fluency (ORF) progress toward her goal during the intervention?

Is Lisa's ORF trend line slope during the intervention as positively steeped as or steeper than her goal line?

ACCUMULATE

Need number of words read per minute and number of errors to establish minimum 6 data points representing # correct words per minute during intervention. 7 data points established through one ORF probe administered per week for 7 weeks. (Note: only 10 unique probes available; a few were repeated.)

ACCESS

ANALYZE

ANSWER

ANNOUNCE

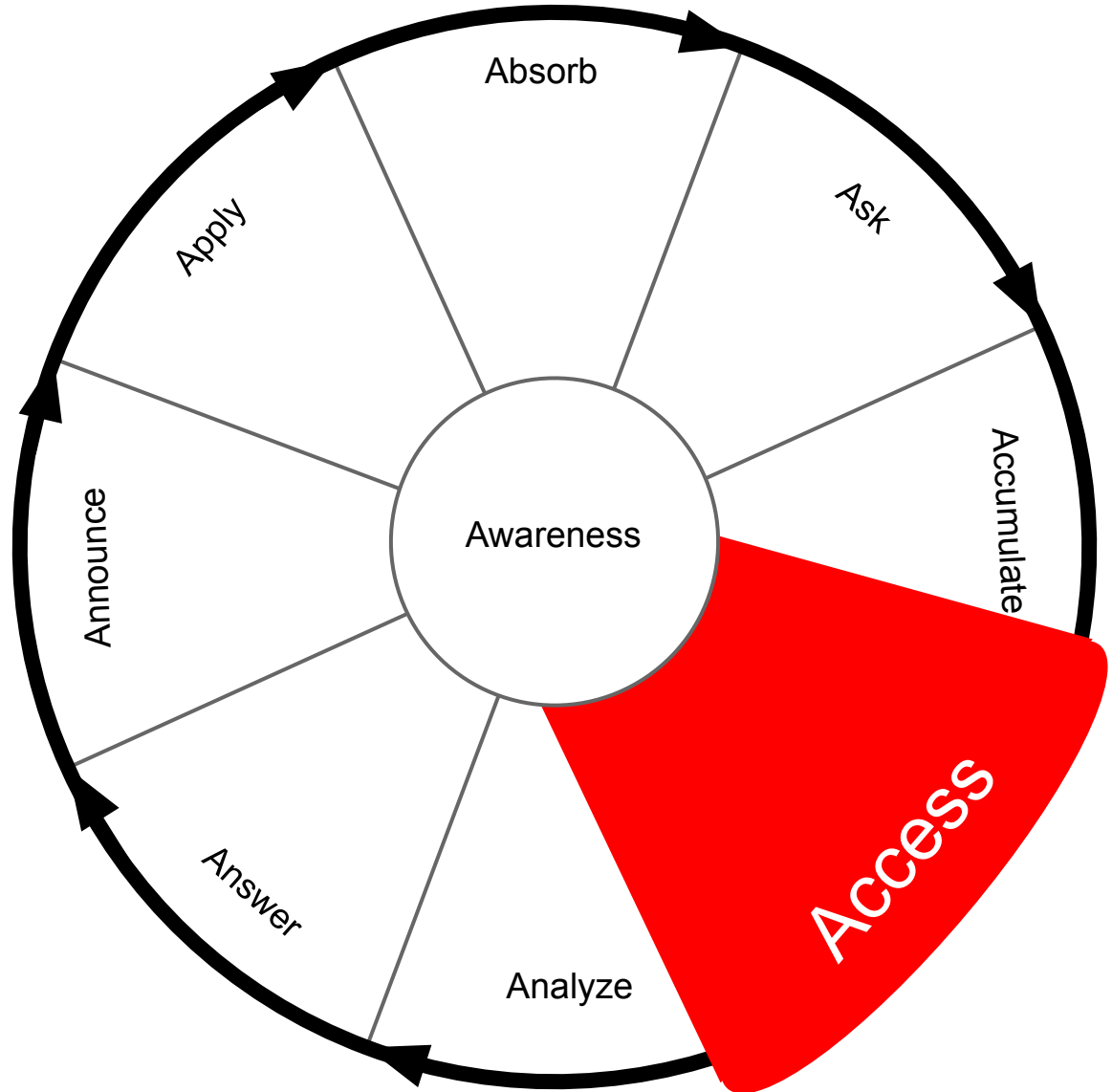
APPLY

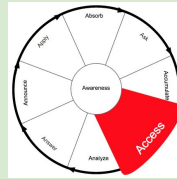
AWARENESS

Access Stage

Ryan:

Now it's time to enter the access stage where you will retrieve the specific data you identified in the accumulate stage.



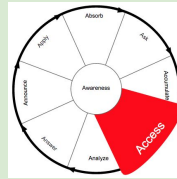


Activity - 08.11.12

Now that 7 data points have been accumulated during the intervention period, which meets the minimum requirement of ____ data points, you may proceed to access the data you need.

- 2
- 4
- 6
- 8

Standard: K.1.F Data Sources

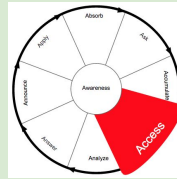


Activity - 08.11.13

You may access the data you need _____.

- on the homepage of the district's website
- in a state assessment report within the Statewide Longitudinal Data System
- in the spreadsheet where you entered Lisa's data
- on the school's monthly calendar

Standard: K.1.F Data Sources



Activity - 08.11.14

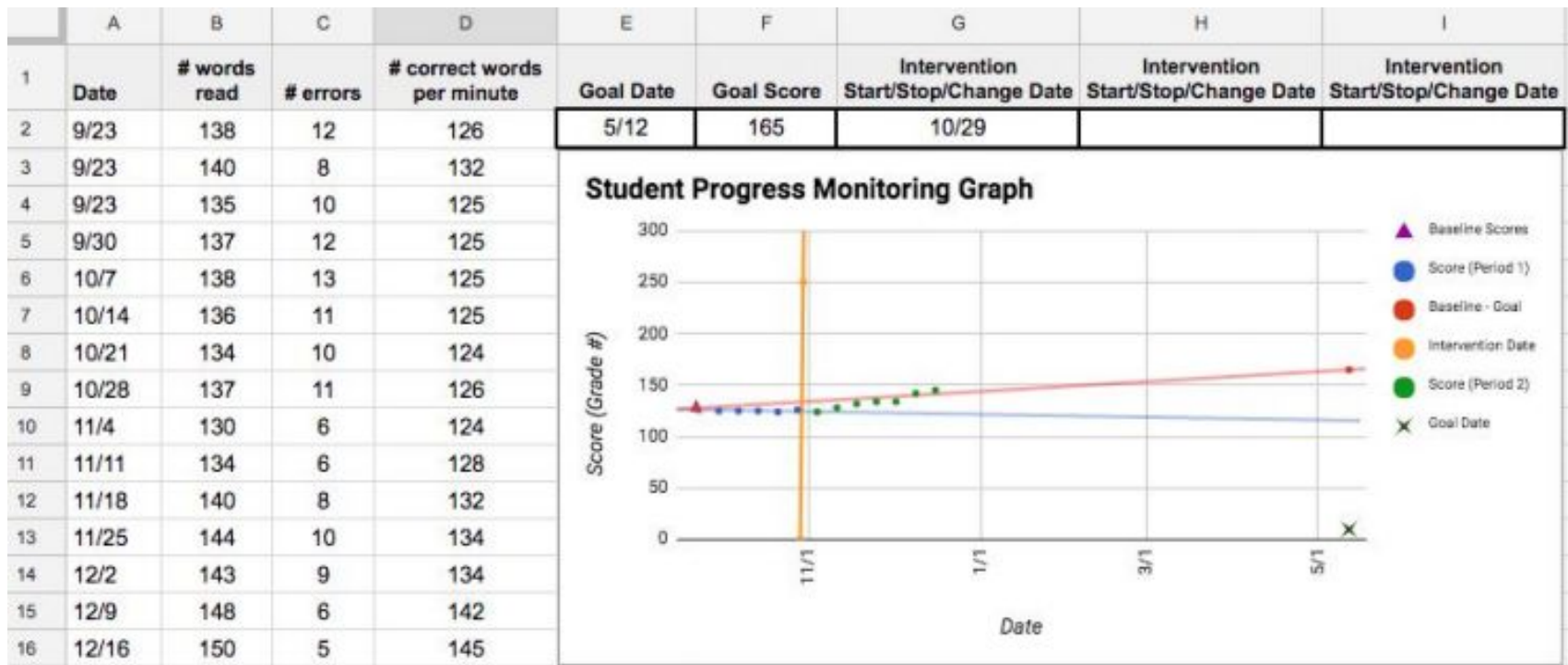
Lisa's Progress Monitoring spreadsheet is stored _____.

- on my computer's hard drive
- on the school district's public website
- in a file cabinet in the secretary's office
- on a shelf in my classroom

Standard: K.1.F Data Sources

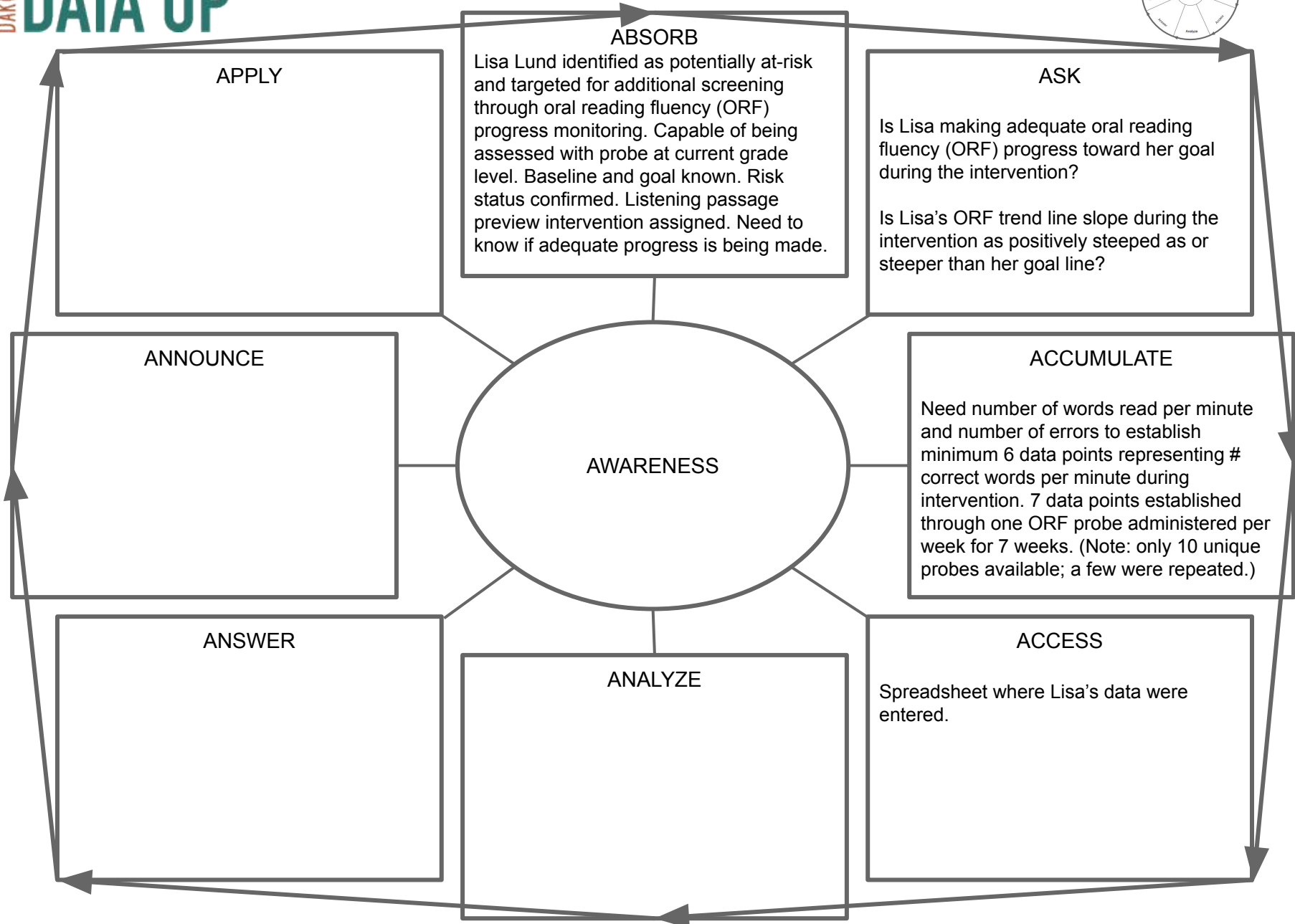
Tutorial

The data collection methods you implemented to accumulate 7 data points, which meets the minimum requirement of 6 data points, allow you to immediately access required data in Lisa's progress monitoring spreadsheet. Her progress monitoring spreadsheet is available on the hard drive of your computer.



A+ Inquiry Framework

The Access stage has been completed.



A+ INQUIRY

GRAPHIC ORGANIZER - Progress Monitoring - (5) Evaluate impact of intervention

ABSORB

Lisa Lund identified as potentially at-risk and targeted for additional screening through oral reading fluency (ORF) progress monitoring. Capable of being assessed with probe at current grade level. Baseline and goal known. Risk status confirmed. Listening passage preview intervention assigned. Need to know if adequate progress is being made.

ASK

Is Lisa making adequate oral reading fluency (ORF) progress toward her goal during the intervention?

Is Lisa's ORF trend line slope during the intervention as positively steeped as or steeper than her goal line?

ACCUMULATE

Need number of words read per minute and number of errors to establish minimum 6 data points representing # correct words per minute during intervention. 7 data points established through one ORF probe administered per week for 7 weeks. (Note: only 10 unique probes available; a few were repeated.)

ACCESS

Spreadsheet where Lisa's data were entered.

ANALYZE

ANSWER

ANNOUNCE

APPLY

AWARENESS

Conclusion

You have now finished the Absorb, Ask, Accumulate, and Access stages for Cycle 5 of progress monitoring: evaluate impact of intervention.

Activity Answers

08.11.01	identify details that are known about the context
08.11.02	reveal a need for more knowledge relevant to the context
08.11.03	whether Lisa is making adequate progress toward her goal during the intervention period
08.11.04	vague
08.11.05	Is Lisa's ORF trend line slope during the intervention as positively steeped as or steeper than her goal line?
08.11.06	proxy for
08.11.07	"yes", "no", or "not sure"
08.11.08	6
08.11.09	number of correct words per minute
08.11.10	number of correct words per minute
08.11.11	Lisa's progress monitoring spreadsheet
08.11.12	6
08.11.13	in the spreadsheet where you entered Lisa's data
08.11.14	on my computer's hard drive

Indicate the extent to which you agree or disagree

	Strongly disagree	Disagree	Agree	Strongly Agree
This module part increased my knowledge of how to implement the Absorb, Ask, Accumulate, and Access stages of A+ Inquiry to identify and retrieve data required for evaluating the impact of an intervention on a student				

Well Done

You have completed this module part. You can begin the next lesson when you are ready.