

Orient Campuses to Data • Assist in Data Analysis • Provide Feedback System

Insert Division / Campus Name Here

Data Analysis Model and Process



Charge

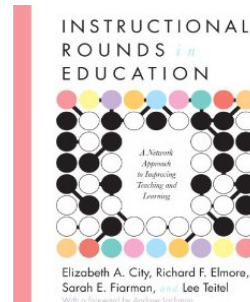
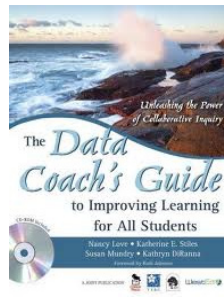
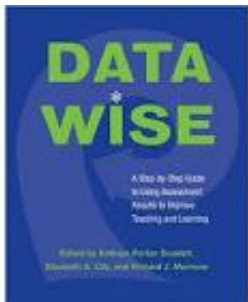
- Develop a systemic model and process to analyze data for student achievement
- Align the model and process with Dallas ISD instructional initiatives



Research

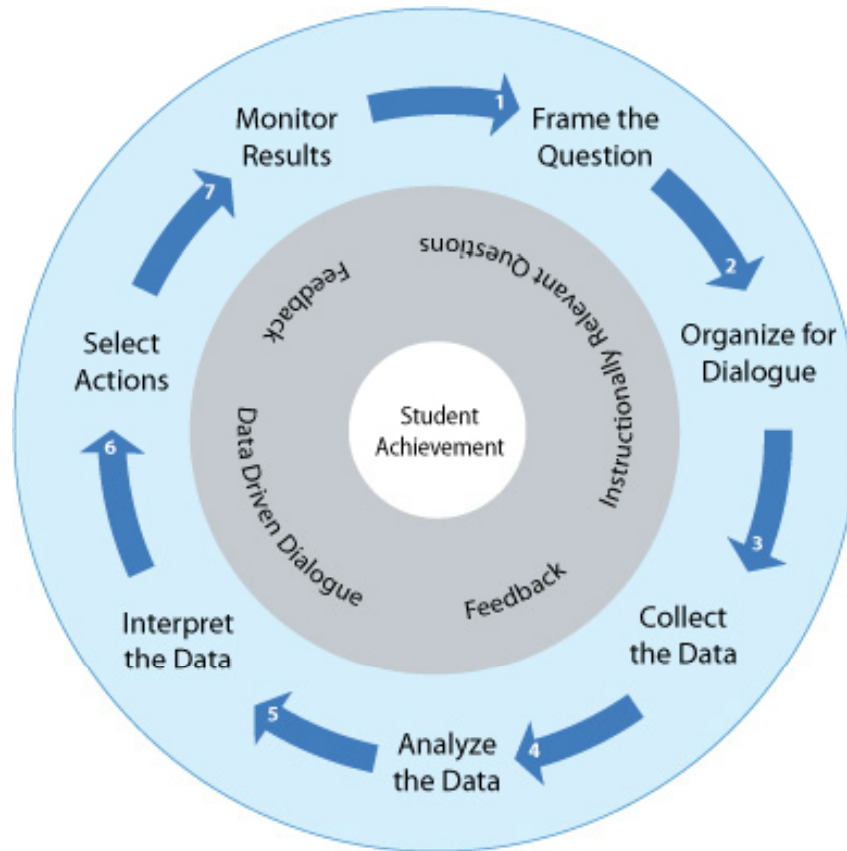
The understanding, use, and implementation of data analysis tools and practices are key components to improving student achievement.

Best Practices and Research for Data Analysis Tools





Data Analysis Model and Process

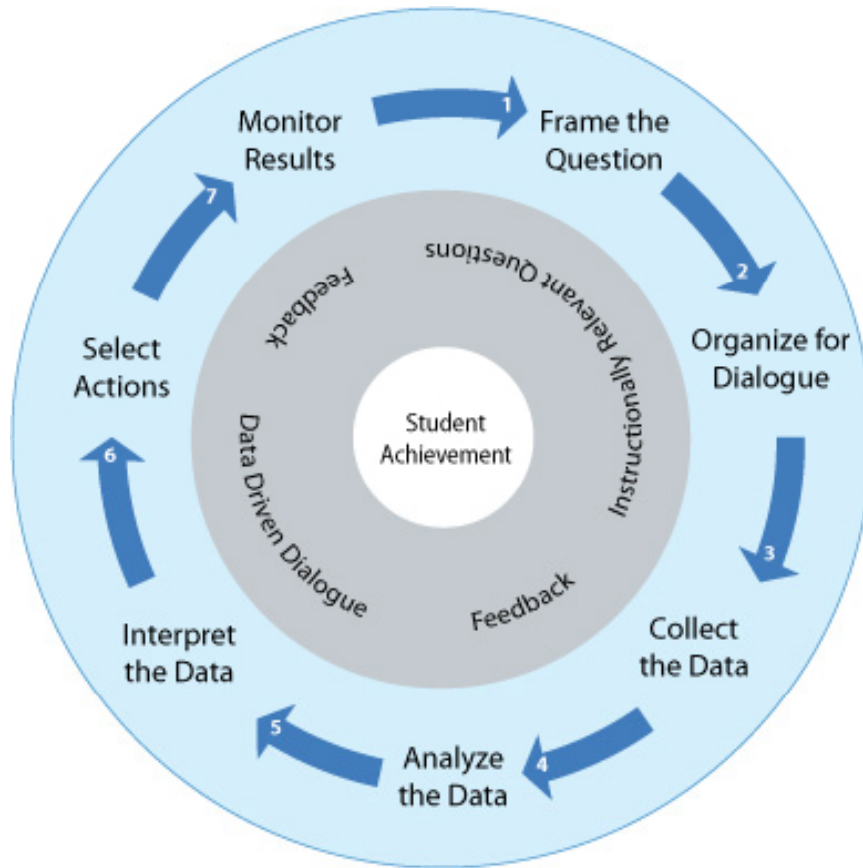


The Data Analysis Model Layers





The Data Analysis Model Layers

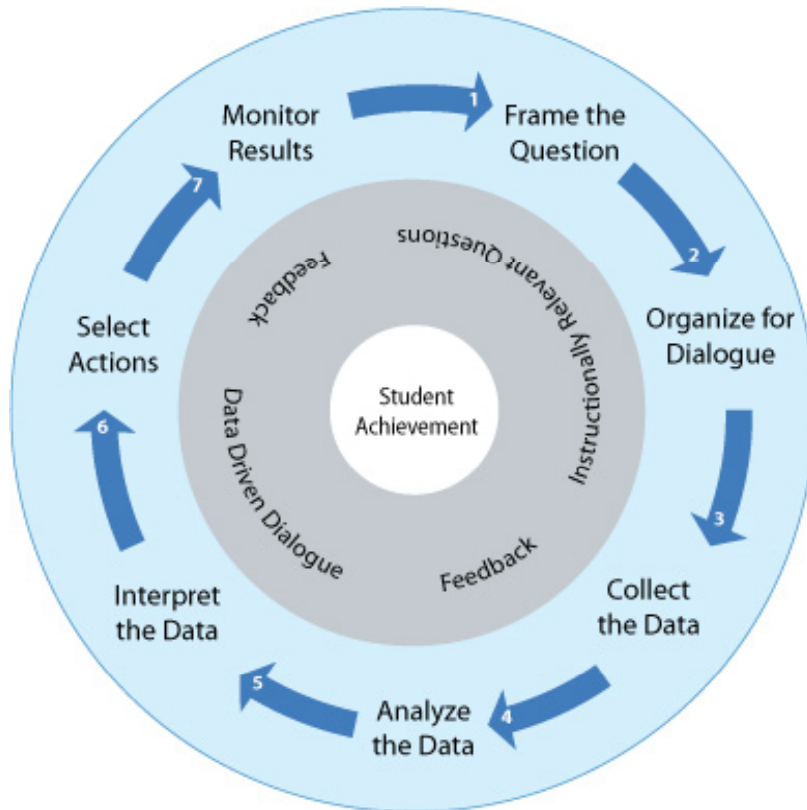


Data Analysis Model Layers
Process Steps
Embedded Data Practices
Student Achievement





Student Achievement



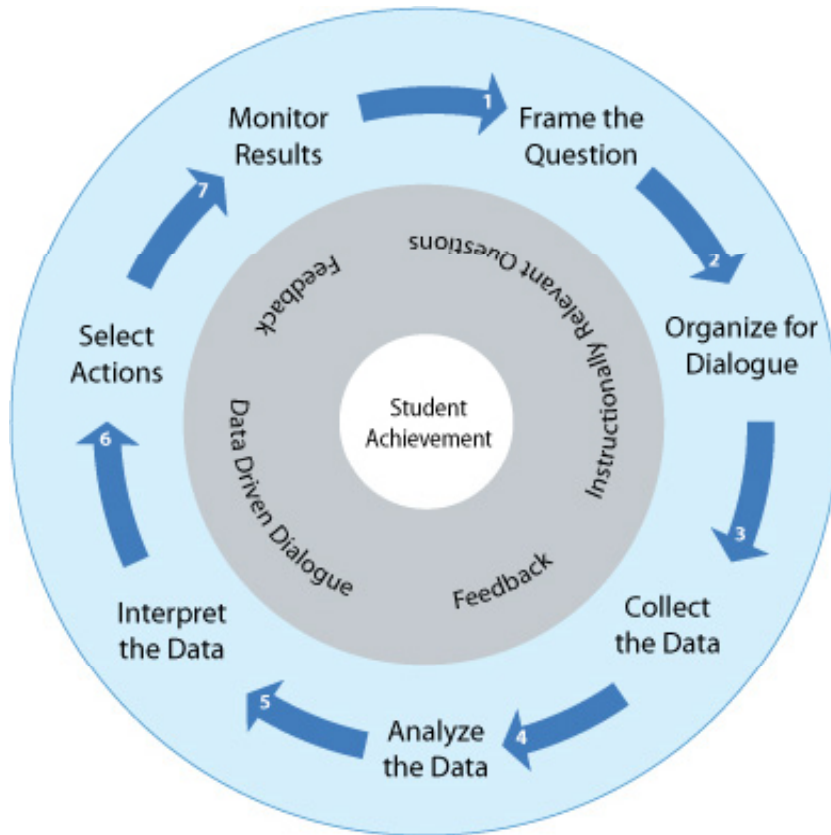
Student Achievement

(Inner Circle)

The Data Analysis Process provides campus leaders and teachers tools to analyze data and develop action plans to monitor and improve *student achievement*.



Embedded Data Practices

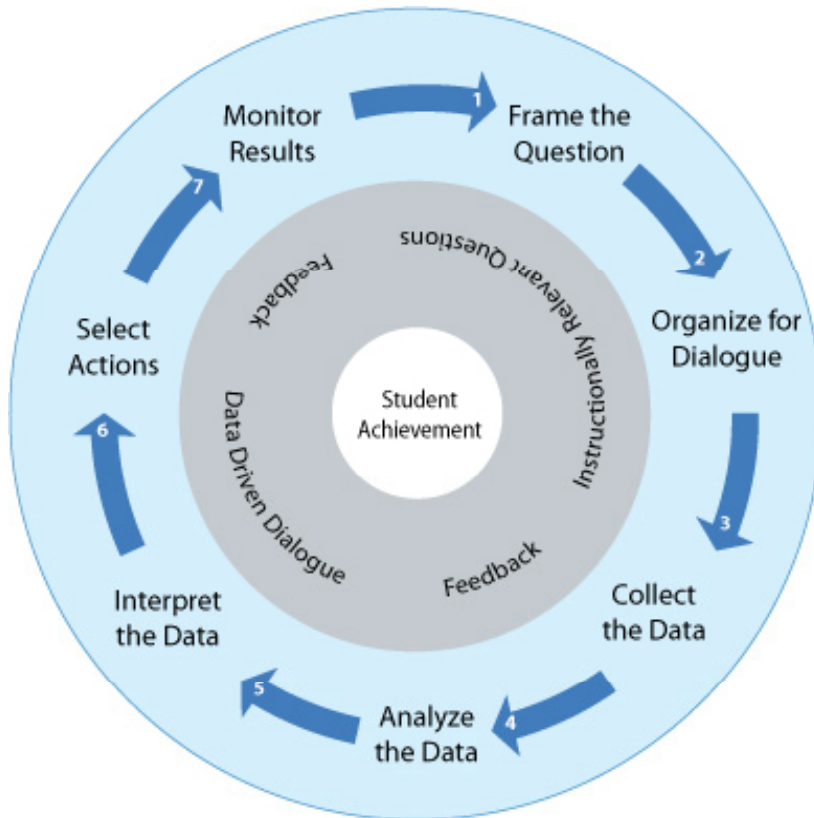


Embedded Data Practices (Middle Ring)

Data-driven dialogue and instructionally relevant questions should be embedded as an ongoing practice when considering data analysis.



Process Steps



Process Steps

(Outer Ring)

The outer ring outlines the steps of the Data Analysis Process.

These seven steps create a process to analyze data for student achievement.

The Data Analysis Process



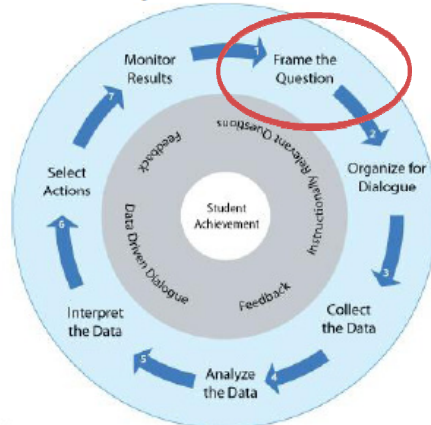
Frame the Question



Insert your school or division name here

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Data Analysis Model and Process



1 Frame the Question

2 Organize for Dialogue

3 Collect Data

4 Analyze Data

5 Interpret Data

6 Select Actions

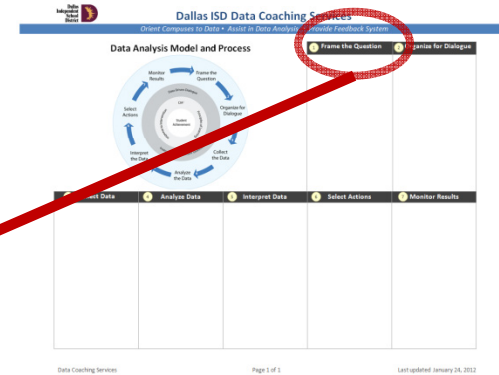
7 Monitor Results

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Frame the Question



1 Frame the Question

The first step in the process is to determine what information and questions need to be answered. This step provides direction and focus to the process.

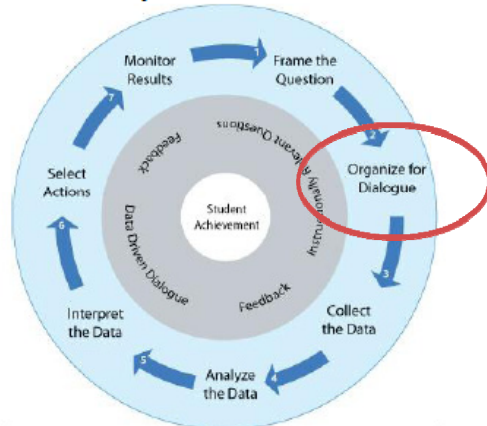
Organize for Dialogue



Insert your school or division name here

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Data Analysis Model and Process

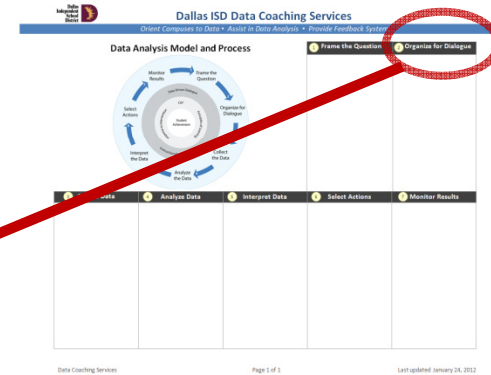


1 Frame the Question		2 Organize for Dialogue		
3 Collect Data	4 Analyze Data	5 Interpret Data	6 Select Actions	7 Monitor Results





Organize for Dialogue



2 Organize for Dialogue

The second step involves organizing the group which will analyze the data.

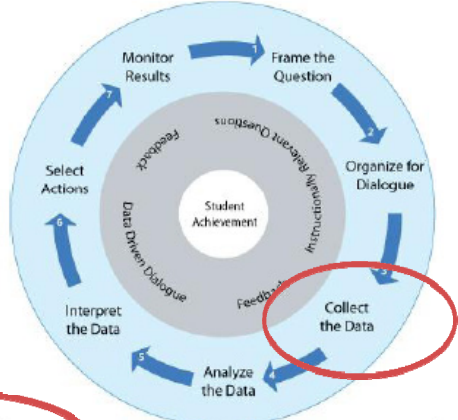
Collect the Data



Insert your school or division name here

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Data Analysis Model and Process



<p>1 Frame the Question</p>	<p>2 Organize for Dialogue</p>			
<p>3 Collect Data</p>	<p>4 Analyze Data</p>	<p>5 Interpret Data</p>	<p>6 Select Actions</p>	<p>7 Monitor Results</p>



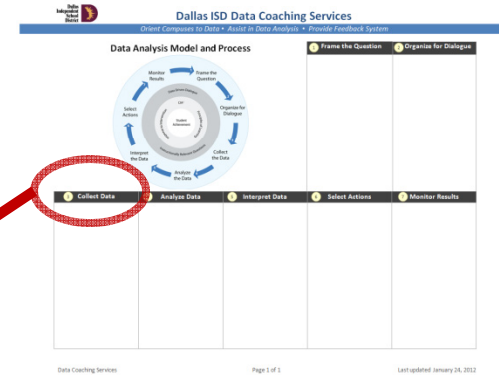


Collect the Data

3

Collect Data

Select the source or sources which will provide the data needed to answer the question(s). Multiple data pieces should be gathered to create a complete representation of the data and information required.



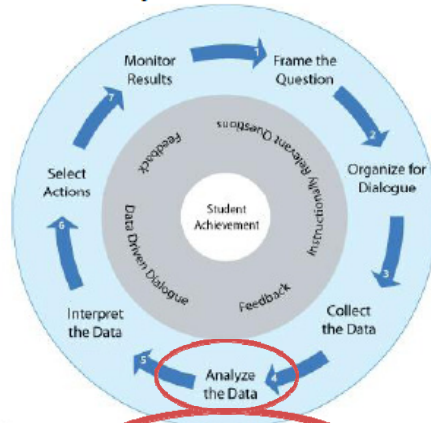
Analyze the Data



Insert your school or division name here

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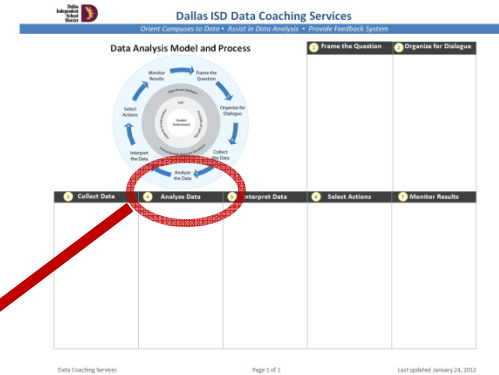


Data Analysis Model and Process			1 Frame the Question	2 Organize for Dialogue
3 Collect Data	4 Analyze Data	5 Interpret Data	6 Select Actions	7 Monitor Results





Analyze the Data



4

Analyze Data

This step will help us create a detailed picture which will generate discussion and assist the team in identifying trends, patterns, and anomalies. Pinpoint the data points for discussion and investigation.

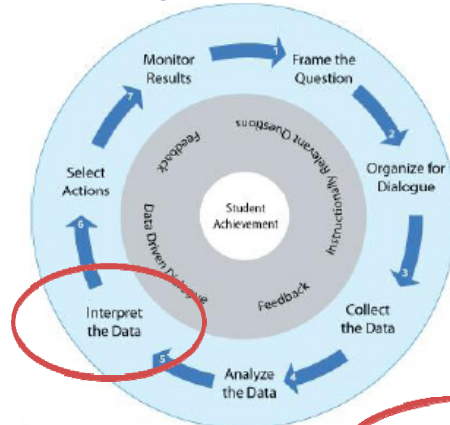
Interpret the Data



Insert your school or division name here

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Data Analysis Model and Process



1 Frame the Question		2 Organize for Dialogue	
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7 Monitor Results			



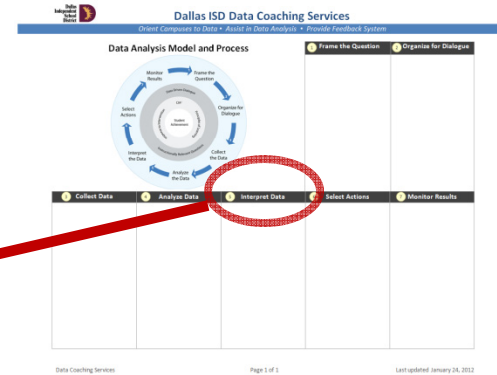


Interpret the Data

5

Interpret Data

At this step, discussion and investigation will take place to identify patterns, trends, and tentative conclusions and explanations.



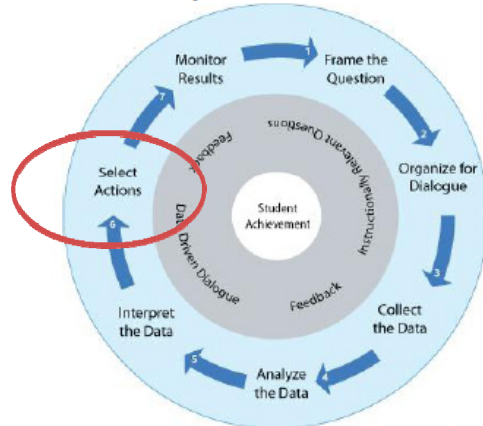
Select Actions



Insert your school or division name here

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Data Analysis Model and Process

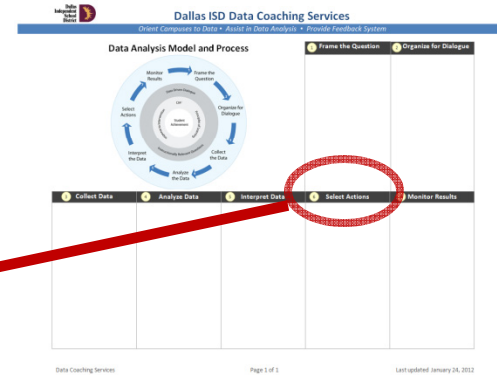


1 Frame the Question			2 Organize for Dialogue	
3 Collect Data			4 Analyze Data	
5 Interpret Data			6 Select Actions	
7 Monitor Results				





Select Actions



6

Select Actions

This step will address appropriate data-driven actions and measurable relevant goals.

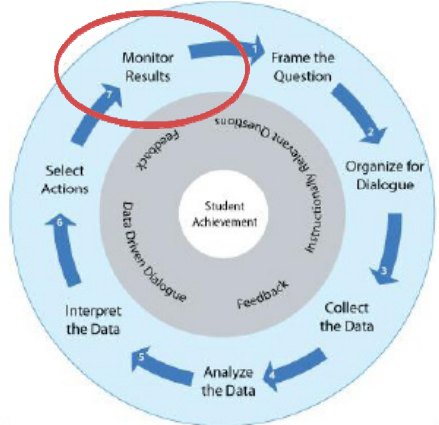
Monitor Results



Insert your school or division name here

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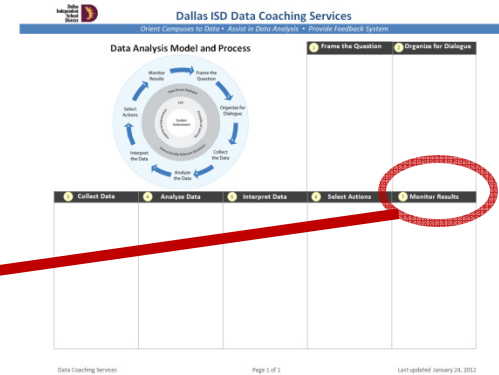




Monitor Results

7 Monitor Results

This step will identify the process and responsible staff for monitoring progress towards relevant goals.





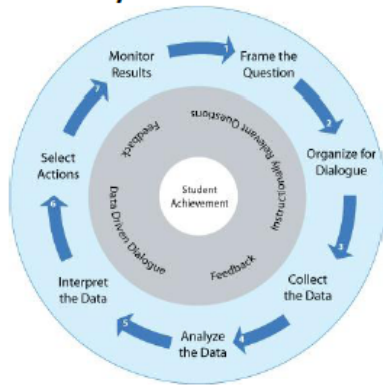
Completed Process Template



Insert your campus or division name here

Orient Campuses to Data • Assist in Data Analysis • Provide Feedback System

Data Analysis Model and Process



1 Frame the Question

The first step in the process is to determine what information and questions need to be answered. This step provides direction and focus to the process.

Examples:

- What do we want to know?
- What are we attempting to measure, monitor?
- What questions are we asking of the data?

2 Organize for Dialogue

The second step involves organizing the group which will analyze the data.

Example:

- The group may be content specific or have representatives across content areas.

3 Collect Data

Select the source or sources which will provide the data needed to answer the question(s). Multiple data pieces should be gathered to create a complete representation of the data and information required.

Examples:

- Dashboards
- MyData Portal
- Chancery
- Campus Data Packet
- Teacher common assessment results
- Student work

4 Analyze Data

This step involves evaluating data using analytical and logical reasoning to examine each component of the data. This will be done by aggregating/disaggregating data and identifying strengths, weaknesses, and anomalies.

Examples:

- What skills, knowledge, and concepts do students have mastery of as evidenced by the data? Which have they not mastered?
- Are the observations and inferences that surfaced during the analysis of the student data validated by multiple data points and sources?

5 Interpret Data

At this step, discussion and investigation will take place to identify patterns, trends, and tentative conclusions and explanations.

Examples:

- What inferences and explanations can we draw from these data sets?
- What tentative conclusions might we draw?
- What important points seem to stand out?
- What are some patterns or trends that are emerging?

6 Select Actions

This step will address appropriate data-driven actions and measurable relevant goals.

Examples:

- What does the research say about the effectiveness of the strategies and actions chosen?
- What interventions such as re-teaching, RtI, after school tutoring, computer-aided tutoring, etc. should be implemented?

7 Monitor Results

This step will identify the process and responsible staff for monitoring progress towards relevant goals.

Examples:

- How will implementation of the actions be confirmed?
- When and how will student progress be measured?
- How will the effectiveness of the strategies and actions be assessed?