

# **Plan-Do-Study-Act (PDSA) Toolkit**

**A Resource for Schools entering the testing phase of the  
Continuous Improvement Process**



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## **What is Plan-Do-Study-Act (PDSA)?**

Phase 2 of the Vermont model for continuous improvement involves planning and testing the agreed upon changes for improvement that were developed in Phase 1, Assess Needs and Innovate. The Agency of Education recommends using rapid, iterative, Plan-Do-Study-Act (PDSA) improvement cycles to pilot and test *some* of these changes for improvement.

The PDSA process is intended for testing small scale changes to build confidence in their efficacy prior to full implementation and scale. There is NO expectation regarding the number of PDSAs to complete or due dates for completion, as it is determined by local data and context.

PDSA cycles are iterative mini-experiments during which educators articulate improvement changes, carry out the change, study the results, and decide how to proceed (e.g., adopt the change, adapt the change, or abandon the change). The overall purpose of running PDSA cycles during the testing phase is to conduct an improvement investigation; during this investigation educators learn quickly and affordably which interventions work and, later, how to adaptively integrate them to attain quality outcomes reliably at scale (Bryk, Gomez, Grunow, and LeMahieu, 2015).

The PDSA Toolkit was assembled to support schools and school systems engaged in conducting PDSA cycles. These explanations, tools, and examples are provided to assist teams in developing or refining their own processes. At the successful completion of these exercises, teams should have realized the following goals:

1. Use a driver diagram to decide on a change idea to test.
2. Determine an appropriate grain size for a testable change idea.
3. Identify and implement appropriate process and outcome measures to use while testing a change idea.
4. Analyze data to determine if a change idea successfully resulted in an improvement.
5. Reflect on outcomes to determine if the change idea should be adopted, adapted, or abandoned.

## **The Plan-Do-Study-Act (PDSA) Worksheet**

The [PDSA Worksheet](#) is a tool designed for teams engaged in the PDSA process by systematically walking through each phase. This toolkit has been designed to explain and provide detailed guidance for each section of the worksheet. A blank worksheet can be found on page 4 and 5.

## Plan-Do-Study-Act Worksheet

School:	Test Date and Timeframe:
Prioritized SMART Goal:	
Change idea to test:	

**PLAN:**

Briefly describe the test:

How will you know that this change idea is an improvement?

What do you predict will happen?

**PLAN- What, Who, When, Where**

List the tasks necessary to complete this test (What)	Person responsible (Who)	When	Where
1.			
2.			
3.			
4.			
5.			
6.			

**PLAN- Data Collection**

Type of Data	What data will be collected and what tool will be used for the measurement?
<b>Process Measures-</b> Measures how well a change idea is implemented.	
<b>Outcome Measures-</b> Measures if the change idea achieved its goal.	

**DO:**

*(Upload data or link to data in this section)*

Test the changes. Collect the data for:

- **Process Measures**
- **Outcome Measures**
- **Balancing Measures-** What were the unintended consequences for implementing the change idea?

**STUDY:**

Was the cycle carried out as planned? What happened during the testing phase?

What did you observe that was surprising?

What were the results? Did the results match your prediction(s)?

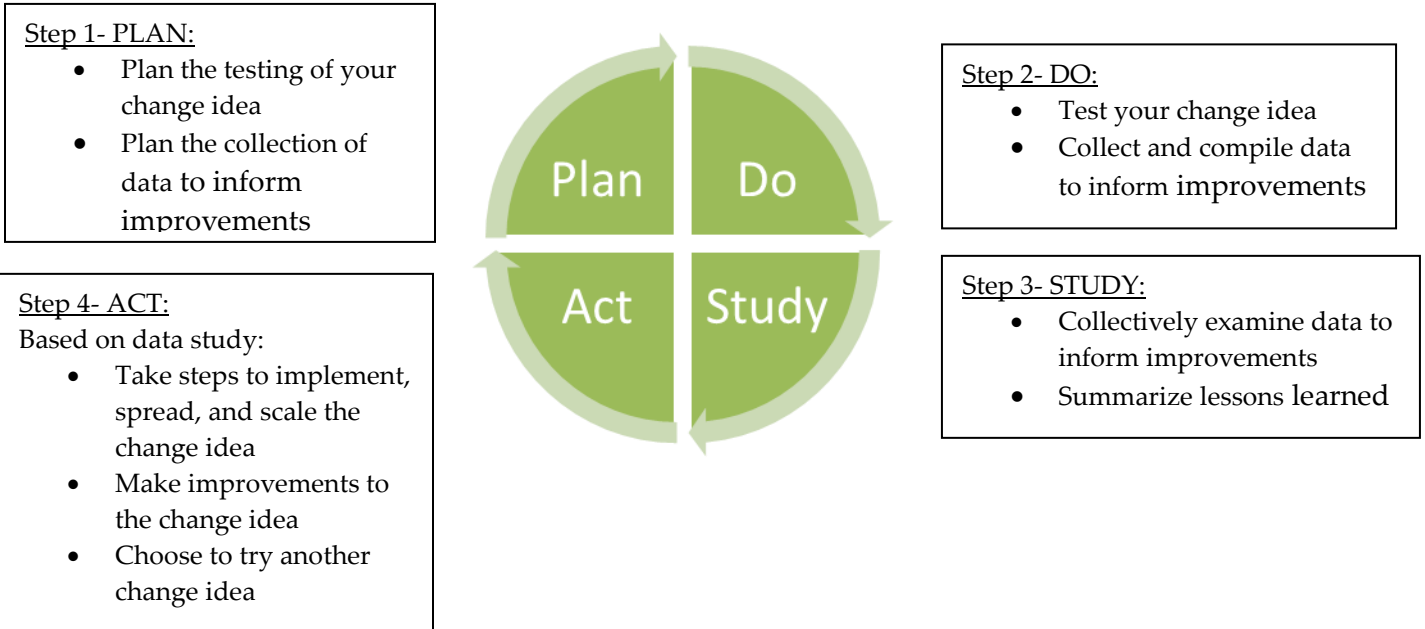
What did you learn?

**ACT:**

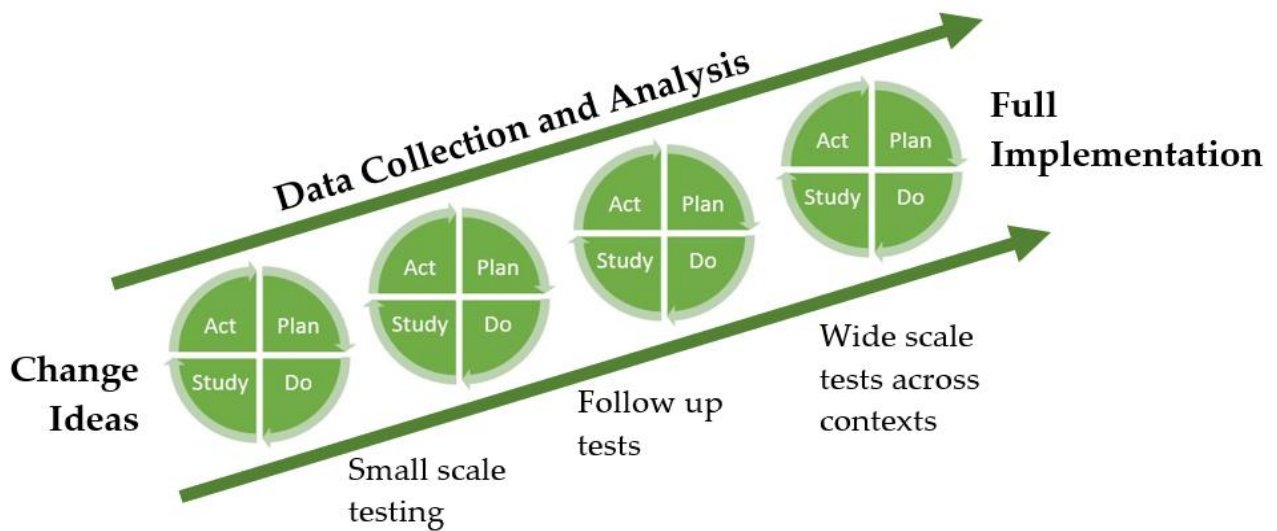
Decide to Adopt, Adapt, or Abandon

- Adopt:** Select changes to implement on a larger scale, develop an implementation plan, and plan for sustainability
- Adapt:** Improve the change and continue testing plan. What plans/changes are you going to make for your next test?
- Abandon:** Discard this change idea and try a different one.

## Diagram of a Plan-Do-Study-Act Cycle



### Improvement Science Approach to Implementation



## **Working Theory of Improvement**

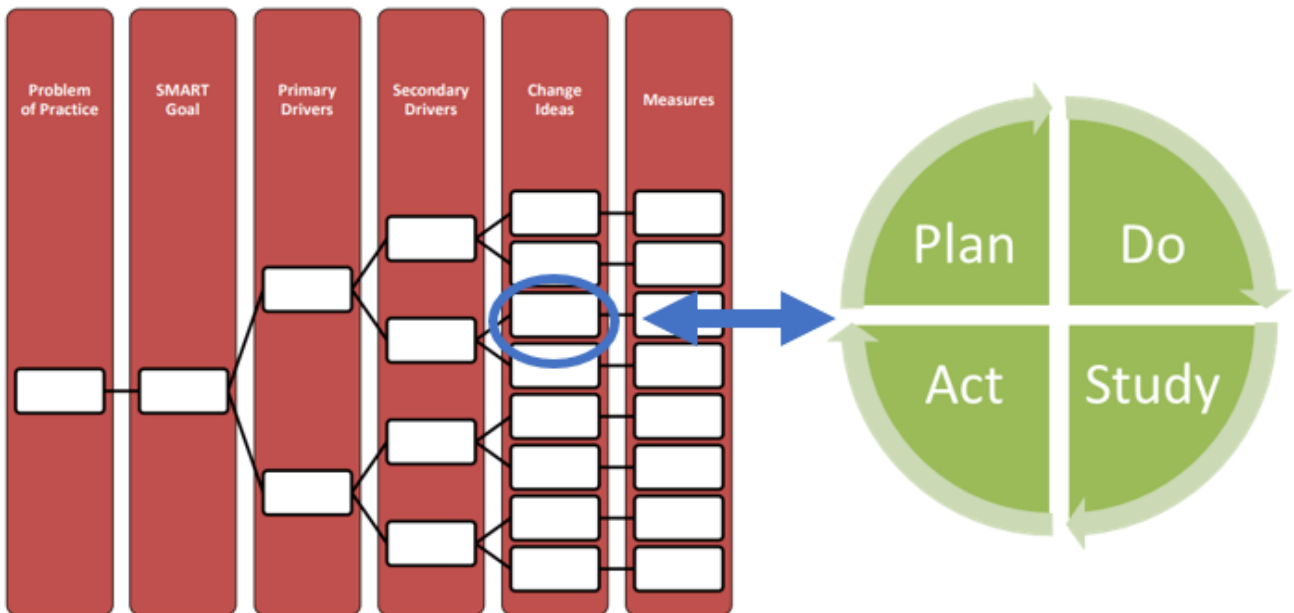
While conducting a [comprehensive needs assessment](#), during phase 1 of the continuous improvement process, your team developed a working theory of improvement and driver diagram. A Working Theory of Improvement describes the structures and processes that the team believes need to be changed to meet an improvement goal, as well as, specific actions to create these changes (Provost & Bennett, 2015).

The [Driver Diagram](#) is a method for organizing your Theory of Improvement and can be completed using the information collected during the comprehensive needs assessment process. It becomes a record of learning and a roadmap for intervention. Theories can change based on testing each change idea and learning from the experiences.

A driver diagram shows the relationship between the overall SMART goal of your improvement project, the primary drivers that directly relate to achieving the goal, the secondary drivers that are components of the primary drivers, and specific change ideas to test for each secondary driver. (IHI QI Essential Toolkit: Driver Diagram, 2017)

The driver diagram is where you will determine which change ideas to test as you complete PDSA cycles you will update the driver diagram accordingly based on the data collected and decisions made about how to move forward (e.g. adopt, adapt, or abandon).

### **Driver Diagram**



## **PDSA Quick Tips and Reminders**

- PDSA cycles during the testing phase are rapid, and iterative. Not all change ideas warrant this level of detailed experimentation.
- Change ideas need to be focused and measurable.
- Collect data that directly measures the impact of the change idea.
- Data can be qualitative and/or quantitative
- Measure the progress and outcome of the PDSA using a variety of data that is directly aligned with the goal and change idea, such as:
  - checklists or rubrics
  - surveys
  - observations
  - evaluations
  - classwork, homework, quizzes, tests, projects
  - state interim assessments

## **Suggested Roles and Responsibilities**

Those closest to implementing the change idea for each PDSA should be involved with each step of the PDSA process.

### **Teachers and Coaches:**

- Provide input on change ideas to test
- Participate in the development and implementation of the test
- Collect data and participate in the analysis and study of the data

### **Principals and Coaches:**

- Provide input on the change ideas to test
- Lead/participate in the development of the test
- Supervise the implementation of the test
- Lead/participate in the analysis and study of the data
- Collaborate on next step decision making
- Coordinate between school and Central Office

### **Curriculum Directors/Superintendents:**

- Manage the development and implementation of the PDSA cycles



## **Before You Begin a PDSA Cycle**

School:	Test Date and Timeframe:
Prioritized SMART Goal:	
Change idea to test:	

Effective PDSA cycles should rely upon:

- A prioritized SMART Goal
- A prioritized change idea to test

### **Prioritized SMART Goal- What do we want to accomplish?**

All goals for improvement should be specific, measurable, attainable, realistic, time-bound, and answer the following questions:

- What are you trying to accomplish?
- For whom?
- By how much?
- By when?

#### **EXAMPLE:**

**CIP SMART Goal:** By the end of the school year, 100% of students will show at least 1 year of growth in mathematics on the common assessment tools.

**Prioritized SMART Goal:** Improve PK-1st grade student performance/readiness in mathematics (number sense, number relationships, and operations) as measured by MathWorks assessment by 25% by April 2019.

**Change idea to test:** Teachers will consistently apply a daily inquiry discussion at the close of the mathematical lesson using a wrap-up discussion template and pool of higher order questions.

### **Change Ideas- What change(s) can we make that will result in improvement?**

Change Ideas are:

- Specific, testable, and measurable
- Actionable within a reasonable timeframe
- Likely to create change based on their underlying practices (not a program, innovation, or person)
- Likely to shift thinking or practice among those implementing
- Likely to have a measurable impact on the related driver(s)

Typically, Change Ideas originate from:

- 1) **Research Knowledge:** What does the literature say about solving this problem?
- 2) **Practice Knowledge:** What have other colleagues done to solve this problem?
- 3) **Design/Creative Thinking:** In what new ways might we address this problem?

**What change ideas should you test for a PDSA?**

PDSA cycles conducted during the testing phase of the continuous improvement process are for the purpose of testing small scale changes to build confidence in their efficacy prior to full implementation and scale. PDSA cycles conducted during the implementation phase are for the purpose of fully implementing the agreed upon changes across contexts (once confidence in their efficacy is built during the testing phase). ) There is NO expectation regarding the number of PDSAs to complete or due dates for completion, as it is determined by local data and context.

Determining an appropriate “grain size” for the change idea being tested is important. An appropriate testable grain size relies on determining specific actions and behaviors, is measurable, and can be easily replicated by more than one person at a time with consistency. Change ideas that are too small can waste time and resources. Change ideas that are too big are difficult to test efficiently and effectively.

<b>What change ideas should you PDSA?</b>	
<b>NO</b>	<b>YES</b>
A one-time professional development workshop or course.	Testing and implementing instructional strategies learned at a professional development workshop or course.
An instructional coach	Coaching cycles to help teachers implement or improve a specific instructional strategy.
Trauma-informed teaching	Testing the lesson planning protocols developed by the instructional leadership team and behavior specialist team e.g., the specific instructional practice/intervention...

## **STEP 1- PLAN**

The first step of the PDSA cycle is to make a **Plan** by assigning tasks, roles, and due dates. In this step you and your team will also make a prediction(s) about what you think will happen by implementing the change idea and determine how you will measure the success of the change idea both while you are conducting the test and after the test is complete.

### **PLAN- Describe the test and make predictions**

Briefly describe the test:

*Summarize what your change idea is and how you plan to test it.*

How will you know that this change idea is an improvement?

*Describe the process measures, outcome measures, and tools you will use to determine whether the change idea tested was an improvement.*

Sentence Starter: *We will know that this change idea is an improvement because, teachers will.... students will....*

What do you predict will happen?

*Write down your prediction or predictions about what teacher and student actions or behaviors you believe will happen or hope to see by implementing this change idea. The predictions need to be measurable and observable to determine whether they were met at the end of the test.*

Sentence Starter: *We predict that teachers will..... We predict that students will.....*

### **PLAN- What, Who, When, Where**

*Using the table below map out the necessary tasks needed to complete the test, identify who is responsible for completing the task, when the task should happen, and where. Be sure to communicate this plan to everyone involved in testing the change idea.*

<b>List the tasks necessary to complete this test (What)</b>	<b>Person responsible (Who)</b>	<b>When</b>	<b>Where</b>
1.			
2.			
3.			
4.			
5.			
6.			

### **Collecting Data**

To determine the effectiveness of a change idea, it is important to identify methods to assess progress and monitor for unintended consequences along the way. Two measurement types can be used to maximize the effectiveness and efficiency of your team's continuous improvement process.

- **Process Measures** are used to determine whether the successful implementation of a change idea is occurring before outcomes are known. These strategies can be monitored formatively and approaches to change can be revised quickly (IHI, 2017).
- **Outcome Measures** measure the intended result of your change idea.
  - **Leading Outcome Measures:** short-term formative or summative assessments (ex., local assessment data, checklists, rubrics)

- **Lagging Outcome Measures:** long-term summative assessments (e.g., end of year assessment data- Smarter Balanced Assessment (SBAC), NWEA Measure of Academic Progress (MAP), Vermont Science Assessment (VTSA), School-Wide Information System (SWIS))

When conducting PDSA cycles, it is imperative to determine appropriate process measures and leading outcome measures. Schools collect a variety of data daily, but not all data will be needed to measure the progress and success of a change idea. Before testing a specific change idea, it is important to collect baseline data to use as a comparison after the initial PDSA cycle. Below is a table describing the best types of data to use for continuous improvement.

<b>Best Types of Data for Continuous Improvement</b>	
<b>Pre-existing data:</b> Data already being collected	Examples: Student work, attendance records, teacher evaluations, discipline referrals, student survey results, assessment data
<b>Observation data:</b> Data collected from watching students or adults engaged in activities	Examples: Walk-throughs, Teacher evaluations, classroom observations
<b>Survey data:</b> Data collected from interviews or surveys	Examples: Paper or electronic surveys, Interviews (phone, face to face)

### **PLAN- Data Collection**

<b>Type of Data</b>	<b>What data will be collected and what tool will be used for the measurement?</b>
<b>Process Measures-</b> Measures how well a change idea is implemented.	<i>Determine what type(s) of formative measures you will use to check-in on the progress of the test as it is happening. Depending on the change idea being tested you can use:</i> <ul style="list-style-type: none"> <li>• exit slips,</li> <li>• surveys,</li> <li>• informal walk through observations,</li> <li>• interviews,</li> <li>• or checklists.</li> </ul>
<b>Outcome Measures-</b> Measures if the change practice achieved its aim.	<i>Determine what type(s) of measurement data you will use to figure out if your change practice was an improvement. Depending on the change idea being tested you can use:</i> <ul style="list-style-type: none"> <li>• local/state student assessment data,</li> <li>• teacher evaluations,</li> <li>• interviews,</li> <li>• observation checklists,</li> <li>• or tracking checklists.</li> </ul>

## **STEP 2- DO**

In the **Do** phase of PDSA you will carry out the test as planned and collect the data identified in the plan phase. Be sure to pay attention and make note of any unexpected or unintended results that arise from testing the change idea.

### **DO**

*(Upload data or link to data in this section)*

Test the changes. Collect the data for:

- **Process Measures**  
*Include the raw data (tables, charts) or a link to the raw data.*
- **Outcome Measures**  
*Include the raw data (tables, charts) or a link to the raw data.*
- **Balancing Measures-** What were the unintended consequences for implementing the change idea? *Include any unexpected or surprising data that may have occurred as a result of testing the change idea.*

## **STEP 3- STUDY**

In the **Study** phase of PDSA you will analyze the data you collected during the **Do** phase. We recommend using a protocol for analyzing and synthesizing data with your team. Below is a protocol you can use. You can use any from the links below or you develop your own protocol.

### ***Collaborative Study for Continuous Improvement Protocol***

Before you begin:

- Identify three roles: Facilitator, Time Keeper, and Note-Taker
  - Facilitation Tips: Let the data speak by observing and noticing what you see before making any assumptions or inferences about what it means. Be sure to ask the quiet person what they think.
  - Depending on where the group is in the process, using the protocol may be awkward and uncomfortable, especially the first several times it is used.
1. REVIEW the continuous improvement plan (3-5 minutes)
  2. PREDICT what you believe the data will reveal (2-5 minutes)
  3. EXAMINE the data independently (10 minutes)
  4. ASK clarifying questions about the data (5 minutes)
  5. OBSERVE what you see in the data without judgement or interpretation (10-15 minutes)
  6. INTERPRET/INFER what the data reveals (10-15 minutes)
  7. IDENTIFY lesson learned (5-10 minutes)

Links to data analysis protocols:

- [SRI Protocol- ATLAS Looking at Data](#)
- [SRI Protocol- Data Mining Protocol](#)
- [SRI Protocol- Looking at Data Sets A Collaborative Inquiry and Problem-Solving Protocol](#)
- [SRI Protocol- Data Driven Dialogue](#)

- [Oakland Unified School District- Data Protocols](#)
- [Data Wise Process](#) and [Free Online Course](#)

## **STUDY**

Was the cycle carried out as planned? What happened during the testing phase?

*Explain what happened during the testing phase and whether the test was carried out as planned or if changes were made and why. Sometimes people are not on the same page about their roles and responsibilities and it is discovered during or after the test that different people were conducting the test differently. Include that information in this section.*

What did you observe that was surprising?

*Based on your balancing measures (see DO Section) what unexpected results, if any, presented themselves while testing the change idea?*

What were the results? Did the results match your prediction(s)?

*State the results of the data analysis and explain how they relate to your prediction(s).*

What did you learn?

*Discuss any reflections the group had about the process, what worked well and why, what did not work and why, realizations and a-ha moments while conducting the test, or any other lessons learned from testing the change idea. This reflection will help determine which direction to take in the next step, **Act**.*

## **STEP 4- ACT**

In the **Act** phase of PDSA the team will decide whether to adopt the change idea based on the data analysis conducted in the Study phase, abandon the change idea, or adapt the change idea and continue testing.

### **ACT**

Decide to Adopt, Adapt, or Abandon

**Adopt:** Select changes to test on a larger scale, develop an implementation plan, and plan for sustainability. *Discuss the implementation plan that will be used for broadening the scale of the change idea to ensure that is done with fidelity.*

**Adapt:** Modify the change and continue testing plan. What plans/changes are you going to make for your next test? *Using the data analysis from the study phase determine what changes and improvements the team can make to the initial idea and outline a plan for how the team can test this new adapted change idea.*

**Abandon:** discard this change idea and try a different one. *Explain the reasoning behind abandoning this change idea. Choose a new change idea to test from the driver diagram and explain the decision behind choosing the new change idea.*

## References

Bryk, A.S., Gomez, L.M., Grunow, A., & LeMahieu, P.G. (2015). *Learning to improve: How schools can get better at getting better*. Cambridge, MA: Harvard Education Press.

Institute for Healthcare Improvement (2017). Science of improvement: Establishing measures.

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Provost, L., & Bennett, B. (2015). What's your theory? Driver diagram serves as tool for building and testing theories for improvement. *Quality Progress*, 48(7), 36-43.

## Glossary

**Balancing Measure:** Used to test for unintended consequences of improvements (IHI, 2017).

**Baseline Data:** The initial performance data taken on a student; often the median score of three baseline data points or perception/survey data. The baseline serves as the reference point for all future data collection.

**Benchmark (Periodic/Interim) Assessments:** Assessments used to gather data several times a year and monitor students' progress with respect to expected (benchmark) performance, over time.

**Benchmarks:** Content or developmental standards (levels, cut scores, targets, etc.) that describe sequences of growth that can be monitored over time. Usually measured three times per year (fall, winter, spring).

**Change Idea:** Evidence based actions for improvement that are related directly to secondary drivers and are intended to have positive outcomes toward meeting the goal.

**Comprehensive Needs Assessment (CNA):** A formal process for determining gaps between current conditions and desired outcomes. Needs assessments are used to identify goals for continuous improvement.

**Continuous Improvement:** An ongoing process of improving school practice based on assessed needs and informed by data. Often this process includes rapid learning cycles / Plan-Do-Study-Act Cycles.

**Data-Based Decision Making:** The ongoing process of analyzing and evaluating student data to inform educational decisions, including, but not limited to, approaches in instruction, intervention, allocation of resources, development of policy, movement within a multi-level system, and disability identification.

**Driver:** The various components of the system believed to have the greatest influence on your problem/goal.

**Driver Diagram:** The Driver Diagram is a method for organizing your Theory of Improvement and can be completed using the information collected during the comprehensive needs assessment process, becoming a record of learning and a roadmap for intervention. A driver diagram shows the relationship between the overall SMART goal of your improvement project, the primary drivers that directly relate to achieving the goal, the secondary drivers that are components of the primary drivers, and specific change ideas to test for each secondary driver. (IHI QI Essential Toolkit: Driver Diagram, 2017)

**Improvement Science:** The science of determining which improvement strategies work best, based strongly on evidence. <http://www.carnegiefoundation.org/our-ideas/>



**Local Educational Agency (LEA):** Districts and Supervisory Unions

**Outcomes/Summative Assessment:** Assessments that help teachers to evaluate and verify learning over time and may aid teachers in planning future instruction, informing classroom decisions (i.e. potential use of groupings), evaluating curricular changes, and making school wide decisions regarding curriculum and instruction.

**Outcome Measure:** The measure of the intended result of your change idea.

**Primary Driver:** Broad areas and components of the system that have the greatest influence on the problem/goal.

**Process Measure:** The measure used to determine whether the successful implementation of a change idea is occurring before outcomes are known. These strategies can be monitored formatively and approaches to change can be revised quickly (IHI, 2017).

**Progress Monitoring (see also Benchmark and Formative):** Data used to frequently check student progress towards success. Progress monitoring is used to assess students' academic or behavioral performance and evaluate the effectiveness of instruction. Progress monitoring procedures can be used with individual students or an entire class.

**Secondary Driver:** Specific practices or components within identified primary drivers that influence a problem/goal.

**SMART Goal:** Goals for improvement should be specific, measurable, attainable, realistic, and timebound describing what will be improved, by how much, by when, and for what/whom.

**Theory of Improvement:** A plan outlining actions necessary to achieve desired changes to reach your goal. It is usually written as an "If-Then" statement and/or displayed in a driver diagram. A Theory of Improvement describes the structures and processes that the team believes need to be changed in order to meet an improvement goal, as well as, specific actions to create these changes (Provost & Bennett, 2015).

## Appendix- PDSA Example 1- Apple Orchard Elementary PDSA Worksheet

**School:** Apple Orchard Elementary

**Test Date and Timeframe:** 9.4.18 -9.28.18

**Prioritized SMART Goal:** Improve PK-1st grade student performance/readiness in mathematics (number sense, number relationships and operations) as measured by MathWorks assessment by 25% by April, 2019.

**Change idea to test:** Teachers will consistently apply a daily inquiry discussion at the close of the mathematical lesson using a wrap-up discussion template and pool of higher order questions.

### PLAN:

**Briefly describe the test:** At the end of each daily math lesson, teachers will ask students wrap up discussion questions to help gauge student's understanding of the day's lesson.

### How will you know that this change idea is an improvement?

- There is more student discourse. Students are responding at a higher frequency and the quality of their answers is improving.
- Teachers are learning to ask new questions.

### What do you predict will happen?

1. Students will be able to discuss what they have learned using conceptual math vocabulary.
2. More students will share what they learned.
3. Teachers will use formative assessment data to inform instruction.
4. Be better able to ask the right questions.
5. Be better able to diagnose and respond.
6. Be better able to use improved questioning techniques.

### PLAN- What, Who, When, Where

List the tasks necessary to complete this test (What)	Person responsible (Who)	When	Where
1. Create template discussion questions.	Principal and Math Teachers	9.6.18	Conference Room
2. Ask End of Lesson Wrap Questions and collect data (see template.)	PK/K and 1 <sup>st</sup> Classroom Teachers and all students	Daily at the end of the lesson (last 5 minutes) for 2 weeks and then gather data to share as a small group. Beginning 9.10.18	Classroom

3. Create Teacher Perceptions Survey	Principal and Math Teachers	9.6.18	Conference Room
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### PLAN- Data Collection

Type of Data	What data will be collected and what tool will be used for the measurement?
<b>Process Measures-</b> Measures how well a change practice is implemented.	1. Teachers will record student responses in a checklist on the discussion template. 2. Teachers will also take a survey about their experiences using the Math Closure Discussion Questions.
<b>Outcome Measures-</b> Measures if the change practice achieved its aim.	1. The frequency and quality of student response. MathWorks progress monitoring and Spring Benchmark; CLASS assessment

### **DO:**

Test the changes. Collect the data.

### Record data:

- **Process Measures-** How well were the change practices implemented? Are the specific practices performing as planned?
  - Both teachers implemented the discussion protocol and recorded answers each day but one.
  - Took longer than anticipated to record answers.
- **Outcome Measures-** How is the system performing? How are the students performing? What are the results?
  - Overall students increased the frequency with which they commented/answered questions.
  - Overall quality of student answers improved.
- **Balancing Measures-** What did you observe that was not part of the plan?
  - More students would answer when they observed the teachers recording answers.

### **STUDY:**

**Was the cycle carried out as planned? What happened during the testing phase?**

- There was a definite learning curve as the students learned they were supposed to explain what they had learned from the day and it was ok to agree or say what their neighbor said.
- Some days students were very engaged and wanted to answer questions, other days they were not engaged at all.
- One of the two teachers did not notice a pattern to student answers.

**What did you observe that was surprising?**

- Even though there were days that students stated that they didn't learn anything new, the teachers still stuck with the protocol and continued asking questions.
- Students responded more when they noticed the teachers writing down their answers.

**What were the results? Did the results match your prediction(s)?**

- The frequency of student responses increased, and teachers were better able to gauge their learning.
- Quality of responses improved.
- There was also an increased justification behind responses.
- Yes, results matched predictions.

**What did you learn?**

- The conversation needs to be modeled more and practiced more.
- As students become more comfortable with the process, teachers expect to see more students answering.
- As students were more comfortable, they became more comfortable disagreeing.

**ACT:**

Decide to Adopt, Adapt, or Abandon

X Adopt: Select changes to implement on a larger scale and develop and implementation plan and plan for sustainability.

Adapt: Improve the change and continue testing plan. What plans/changes are you going to make for your next test?

Abandon: discard this change idea and try a different one