



Plan-Do-Study-Act Game: Mr. Potato Head

Building Sam



You will run a series of PDSA cycles to learn how to build me quickly and accurately.

Adapted from Mr. Potato Head Plan, Do, Study, Act (PDSA) Exercise by TrueSimple, LLC. Williams, DM.

Our Learning Framework

What specifically are we trying to accomplish?

Reconstruct Sam accurately and quickly.

What change(s) might we introduce?

Your changes will be based on your group's theory of how to build Sam accurately and quickly.

Why do we think those changes may be an improvement?

You will track accuracy and time.

How will we know if a change is an improvement?



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Data and Measures

TIME

Start:
When the time keeper says “Go”

Stop:
When the builder *removes hands* and says “DONE!”

SCORE

Criteria	Score
All depicted pieces are on Sam, in the correct place, and oriented correctly.	4
All depicted pieces are on Sam, but not all oriented correctly.	3
All depicted pieces are on Sam, but not all in the correct place.	2
One or more depicted pieces not on Sam.	1

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Overview of the Activity



- **Part 1: Baseline Test**
 - Collect baseline data on ONE test
- **Part 2: All Tables Run Tests**
 - Assign roles
 - Identify change idea and make predictions
 - Run test cycle and fill out the PDSA tracker
- **Part 3: Discussion and Debrief**

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Rules for Reconstructing Sam



- Reconstruct Sam as shown in the picture*
- Start only after the time keeper says “Go!”
- Stop the timer only after a builder removes hands from all parts AND says “Done!”

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Accuracy is Important: How Sam Should Look



**When you finish
building Sam,
he should look like this.**

*Adapted from Mr. Potato Head Plan, Do, Study, Act (PDSA)
Exercise by TrueSimple, LLC. Williams, DM.*

Part 1: Baseline Test

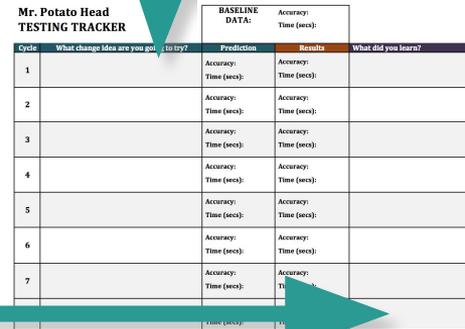


- We will quickly run **ONE** cycle for baseline data
 - Need volunteers for:
 - Time Keeper
 - Quality Inspector
- **Predictions**
 - Time
 - Accuracy
 - Other

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Part 2: Run Tests

- **Before you build Sam**
 - Assign roles (time keeper and quality inspector)
 - Identify what *change idea* you will try and your *predicted* accuracy and time
- **After you build Sam:**
 - Record your results
 - Identify what you learned from that cycle
 - Plan the next cycle



Mr. Potato Head TESTING TRACKER

Cycle	What change idea are you going to try?	Prediction	Results	What did you learn?
1		Accuracy: Time (sec):	Accuracy: Time (sec):	
2		Accuracy: Time (sec):	Accuracy: Time (sec):	
3		Accuracy: Time (sec):	Accuracy: Time (sec):	
4		Accuracy: Time (sec):	Accuracy: Time (sec):	
5		Accuracy: Time (sec):	Accuracy: Time (sec):	
6		Accuracy: Time (sec):	Accuracy: Time (sec):	
7		Accuracy: Time (sec):	Accuracy: Time (sec):	

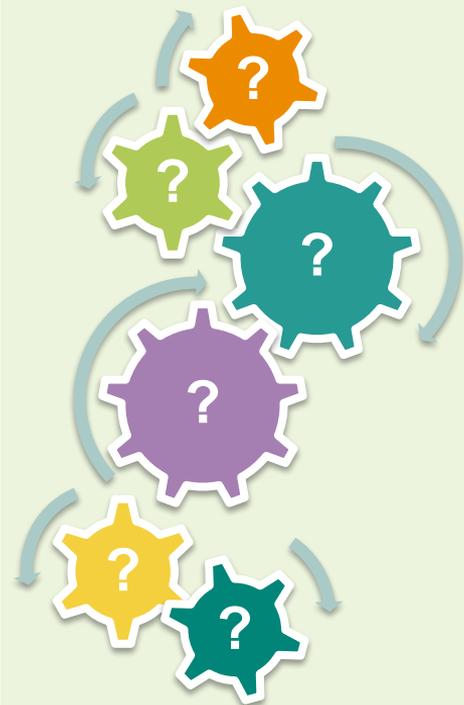
BASELINE DATA: Accuracy:
Time (sec):

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STOP!

Network Learning



- Everyone up!
- Find someone who has a better time than you.
- Find out:
 - What did they test?
 - What did they learn?
 - What worked?
 - What didn't?
 - What adaptations did they make (if any)?

Back to Testing Change Ideas

Mr. Potato Head TESTING TRACKER

Cycle	What change idea are you going to try?	BASELINE DATA:		What did you learn?
		Prediction	Results	
1		Accuracy: Time (secs):	Accuracy: Time (secs):	
2		Accuracy: Time (secs):	Accuracy: Time (secs):	
3		Accuracy: Time (secs):	Accuracy: Time (secs):	
4		Accuracy: Time (secs):	Accuracy: Time (secs):	
5		Accuracy: Time (secs):	Accuracy: Time (secs):	
6		Accuracy: Time (secs):	Accuracy: Time (secs):	
7		Accuracy: Time (secs):	Accuracy: Time (secs):	
8		Accuracy: Time (secs):	Accuracy: Time (secs):	



- Run multiple cycles
 - Time Keeper, and
 - Quality Inspector
- Record what change you're trying for each cycle and make predictions
- Record Results
 - Time
 - Accuracy
 - Other

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Part 3: Discussion and Debrief



- What did you learn about building Sam?
- What did you learn about PDSA cycles?
- What did you learn about networked learning?