

Agenda  
-reading  
-physical model  
-new  
conceptual  
model

Read Everyday Mysteries P. 1- 4

Answer the questions 1-3 on P.4 in full sentences in your journal.

**Learning target:**

I can make a physical model to test ideas about the black box

-  Sit up
-  Track the speaker
-  Ask questions
-  Respect your peers
-  Stay focused

Agenda

- reading
- physical model
- new
- conceptual
- model

Read Everyday Mysteries P. 1- 4

Answer question 3 on P.4 in a full sentence in your journal.

**Learning target:**

I can make a physical model to test ideas about the black

-  Sit up
-  Track the speaker
-  Ask questions
-  Respect your peers
-  Stay focused

## Put these words in your glossary

- **Consensus:** agreement
- **Collaboration:** Working cooperatively together.
- **Conceptual model:** A model that exists in the mind or on paper. An idea and explanation or an image.
- **Physical model:** A model that can be touched and is larger or smaller than the system it represents.

-  Sit up
-  Track the speaker
-  Ask questions
-  Respect your peers
-  Stay focused

### Learning target:

I can make a physical model to test ideas about the black box

**As scientists what can you do to test your idea about what is inside the black box?**

### **Testing Your Idea**

Build a physical model of your consensus conceptual model to test your observations.

**Learning target:**

I can make a physical model to test ideas about the black box

-  Sit up
-  Track the speaker
-  Ask questions
-  Respect your peers
-  Stay focused

Copy and complete this paragraph.

The physical model I built to test my idea did/did not match the conceptual model. I now know .....

**Learning target:**

I can make a physical model to test ideas about the black box

-  Sit up
-  Track the speaker
-  Ask questions
-  Respect your peers
-  Stay focused

■ **Black Box:** Any system that can not be directly observed or easily understood.

■ **Model:** A model is a representation that explains how something is built or how it works. Used to test ideas

■ **System:** Two or more objects that work together or share the same space in a meaningful way.

**Learning target:**

I can use my observations and prior knowledge to make an inference about something I can not directly observe.

## period 1 consensus models

A



B

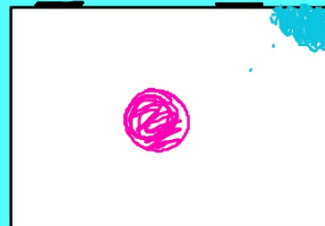


The physical model we built to test our idea did/did not match the conceptual model. We now know .....

C



D

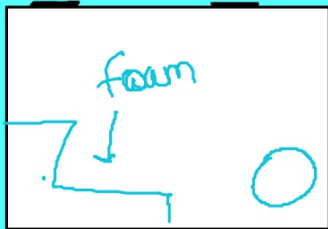


### Learning target:

I can use my observations and prior knowledge to make an inference about something I can not directly observe.

## period 2 consensus models

A



B



C



D



The physical model we built to test our idea did/did not match the conceptual model. We now know

.....

### Learning target:

I can use my observations and prior knowledge to make an inference about something I can not directly observe.

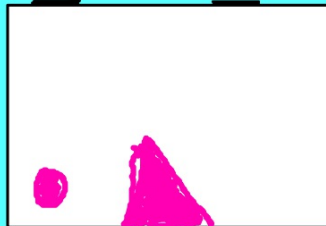


## period 3 consensus models

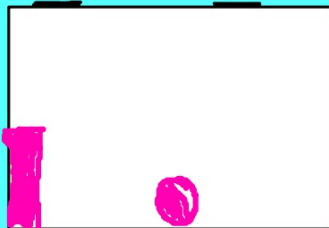
A



B



C



D



The physical model we built to test our idea did/did not match the conceptual model. We now know

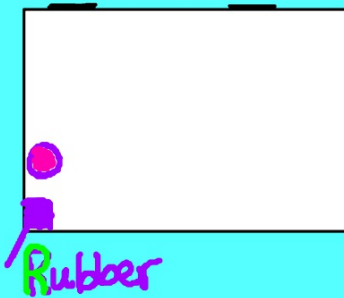
.....

### Learning target:

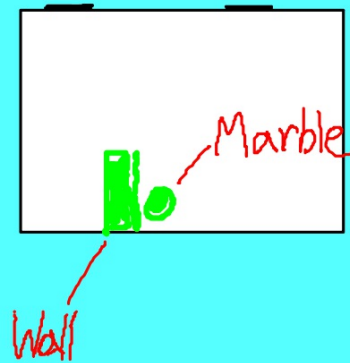
I can use my observations and prior knowledge to make an inference about something I can not directly observe.

## period 4 consensus models

A



B



The physical model we built to test our idea did/did not match the conceptual model. We now know .....

C



D



### Learning target:

I can use my observations and prior knowledge to make an inference about something I can not directly observe.



