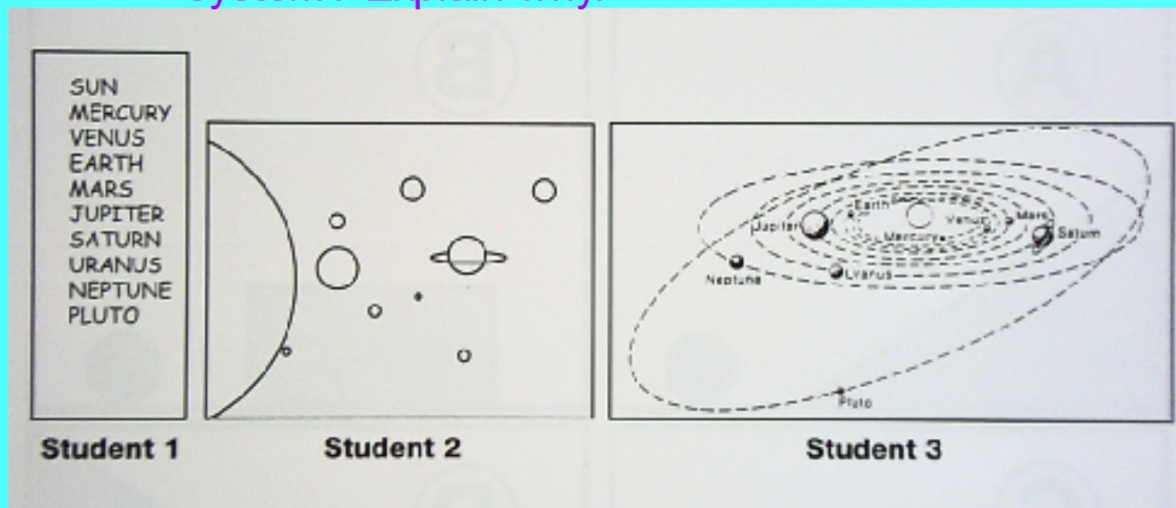


Look at the 3 diagrams below and respond to the questions:

1. Which of the diagrams is a model?
2. Which diagram tells most about the solar system? Explain why.



Learning target:

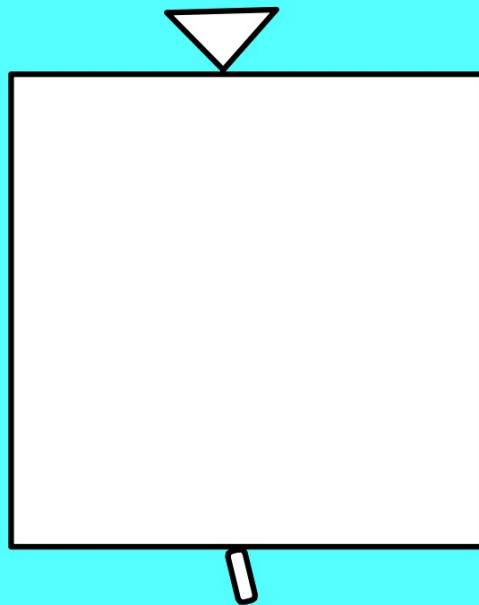
I can draw a conceptual model to explain how a black box works.

- ★ Ask questions
- ★ Respect your peers
- ★ Stay focused

Agenda
 -pre-assessment
 -new
 conceptual
 model

Your challenge is to draw a model that explains how this black box works.

Initial Idea



Explain the background knowledge helped you with the design?

LT. I can draw a conceptual model to explain how a black box works.

Diagram Drought Stopper Set-up

Accurate – Relationship between objects, measurements

Big – Fill the space

Colorful or shaded – Neatly presented, realism not decoration

Detailed – Clear labels, include all materials

LT. I can draw a conceptual model to explain how a black box works.

Good Copy

Drought Stopper Conceptual Model

~Draw a scientific diagram of your conceptual model on a full piece of paper.

10pts

2pts Accurate (Title, show outer set-up correctly, clearly show your idea)

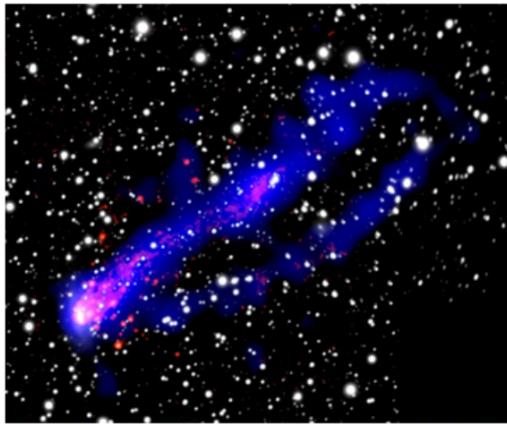
2pts Big (Fill the page! Details are big enough to see.)

2pts Colorful or shaded (Neatly done! Realism, not decorations. Draw straight lines with a ruler)

2pts Detailed (Neatly label all parts with straight horizontal lines, enough detail in drawing and or labels to explain your idea.)

2pts Explanation of background knowledge

LT. I can draw a conceptual model to explain how a black box works.



MSU's Megan Donahue was part of an international team of astronomers that viewed this rare double-tailed gas cloud. Their paper on the subject is in the publication Astrophysical Journal. Photo courtesy of the Chandra X-Ray Observatory

New observations lead to new ideas.

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

I can draw a conceptual model to explain how a black box works.