LEGO LAB

Learning Target 2: I can describe the fundamental assumptions of science— including criteria for scientific explanations and how all scientific knowledge is subject to change.

Procedures

1. Choose one partner. Write their name here: ______________________________

2. Obtain two bags of Legos from your teacher.

3. Remove the Legos from both bags and verify that each set of Legos contains the exact same pieces. If they don’t, ask your teacher for additional Legos.

4. Return one set of Legos to the baggie.

5. Using the other set of Legos, construct a structure or tower and write a set of directions that others can use to replicate your design. You may also choose to draw a model of your Lego structure that will help another team to replicate it.

6. Once you have finished building your structure and have completed directions and a drawing, find another group to partner up with. Give this group your additional set of Legos and your instructions and challenge them to replicate the structure using only your directions.

7. Once they have finished, compare their replicated structure to your original structure. If they do not match exactly, provide them with your drawing so they can seek to correct their mistakes.

Analysis Questions

1. What did you learn about importance of detail in scientific experiments? Elaborate.

2. Why is it necessary for other scientists to be able to repeat an experiment?

3. Why do scientists create models?

4. Name an example of a real model that you have used? (preferably a scientific model)