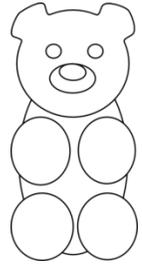


Name _____



Observing, Inferring, and Predicting with Gummy Bears

Purpose: To practice observing, inferring, and predicting. To distinguish between an observation, inference, and prediction.

Materials:

| | | | |
|--------------------|-----------------|---------------------|-----------|
| 1 Gummy Bear candy | Metric ruler | Triple beam balance | Clear cup |
| Tap water | Distilled water | Salt water | Hand lens |

What to do:

1. Work with a partner.
2. Each of you get one Gummy Bear.
3. Make qualitative and quantitative observations of your candy. Record your data.
4. Based on previous science knowledge, what do you PREDICT will happen to the candy if it sits in a cup of water overnight? *Use a complete sentence.*

I predict _____

5. Put your candy in a cup of tap water. Let it sit overnight.
6. CAREFULLY remove the candy from the water. It is very fragile at this point.
7. Make and record qualitative and quantitative observations of your candy.
8. Based on your observations, what can you INFER about this investigation? *Use complete sentences.*

9. PREDICT what will happen if you put the candy in distilled water. *Use a complete sentence.*

I predict _____

10. PREDICT what will happen if you put the candy in salt water. *Use a complete sentence.*

I predict _____

11. Rinse out your cups. One of you fill your cup with distilled water. The other fill your cup with salt water. CAREFULLY put the candies in the cups and let them sit overnight.

Data and Observations:

| Type of Water | Qualitative Observations | Quantitative Observations |
|---------------|--------------------------|---------------------------|
| Start | | |
| Tap | | |
| Distilled | | |
| Salt | | |

Based on your observations, what can you INFER about water and Gummy Bears?

Based on your observations, what would you PREDICT would happen to a Gummy Bear in...

- water from the Gulf of Mexico? _____

Why do you think this? _____

- water from a freshwater lake? _____

Why do you think this? _____

- water from a swimming pool? _____

Why do you think this? _____
