Gr 1 Science & Engineering Practices
NGSS: Constructing Explanations
Constructing explanations and designing solutions in K–2 builds on prior experiences and progresses to the use of evidence and ideas in constructing evidence-based accounts of natural phenomena.

**Phenomena: Sink and Float**

**Will it sink or float?**

**What to do:**

1. Fill a bowl or cup with water
2. Find 5 small things like a button, cereal, leaf, flower, bottle cap, penny

**Directions:**

1. Write the name of the thing.
2. Predict if it will sink or float, put a / in the box.
3. Test it in the bowl of water.
4. Put a / under sink or float to show what happened.

<table>
<thead>
<tr>
<th>Thing</th>
<th>Sink</th>
<th>Float</th>
<th>What happened?</th>
<th>Did it sink or float?</th>
</tr>
</thead>
<tbody>
<tr>
<td>rock</td>
<td>✓</td>
<td></td>
<td>Sink</td>
<td>✓</td>
</tr>
</tbody>
</table>

1. 
2. 
3. 
4. 
5. 

I learned ____________________________________________

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Phenomena: Elephants at the Beach

I see ~ Maka nānā 👀👀 I notice. I observe.

1) ________________________________________________________________

2) ________________________________________________________________

3) ________________________________________________________________

I think ~ Mana`o Maybe the elephants ____________

______________________________________________________________

______________________________________________________________

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Did you know elephants love to swim and dive down in the water? You don’t have to teach elephants how to swim, like dogs, they just know how!

The air in the elephant’s big body helps it float and its strong legs help it swim fast. To swim they move all 4 legs.

Elephants use their trunks like snorkels. They hold their trunks up out of the water to breathe air.

Baby elephants like to climb on top adult elephants then splash back down into the water.

This baby elephant is having fun playing with the waves.

I learned elephants
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Phenomena: Portugese-Man-of-War

I see ~ Maka nānā 🕵️‍♀️ ⚡️ I notice. I observe.

1) ____________________________________________________________

2) __________________________________________________________

3) __________________________________________________________

I think ~ mana`o The Man O` War can float on the water, because __________________________________________________________

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The Man Of War floats on the ocean. It has a gas bubble that keeps it floating on top of the water. It is not a jelly fish, but a cousin to jelly fish and sea anemones.

The Man Of War can’t move by itself in the water, but is pushed by waves and winds. The top of the gas bubble is like the sail of a boat that the wind pushes.

The Man Of War has long tentacles that sting tiny fish then pulls them up, up to its stomach under the gas bubble. The tentacles can be more than 30 feet long. If you see one when you are swimming keep away! The sting will hurt badly.

Man of War gets pushed onto the beach by wind and waves. The long tentacles can sting even after they have been on the sand so be careful.

The Man Of War got its name, because it looked like man-of-war warships.

I learned the Man of War

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