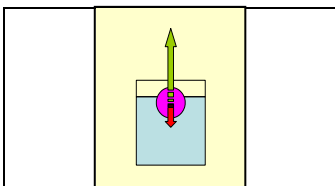


Buoyancy

Task1. According to your experience, predict which objects will float or sink in water. Then test your predictions and complete the table.

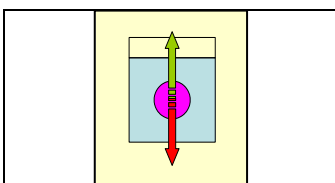
Object	Float or Sink? (Prediction)	Float or Sink? (Observation)
stone		
spoon		
boat		
coin		
wood		
submarine		
cork		

Task2. Match the images with the explanation and with the letters (W is weight and B is upward buoyant force):



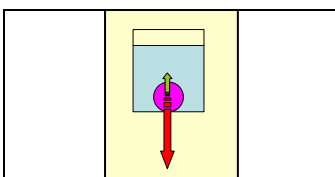
The body sinks and falls onto the bottom.

$$W=B$$



The body floats.

$$W>B$$



The body sinks but it doesn't arrive to the bottom.

$$W<B$$

(images by the author)

Task3. Complete the chart in the following page.

You have to:

- Cut the images given in page.
- Put them in order in the chart.
- Check with the members of the group that each image is in its corresponding place.
- Stick them.
- Write the sentences that are not given (each square in the table must have something written).
- Every member in the group should collaborate actively to make the chart!



$W > B$



The weight of the stones is higher than the upward buoyant force of the water.



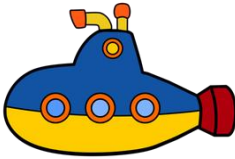
_____ is equal to _____.

Weight is higher _____

The submarine sinks but it doesn't arrive to the bottom because...

The spoon ____

The weight of the boat is lower than the upward buoyant force of the water in the sea.

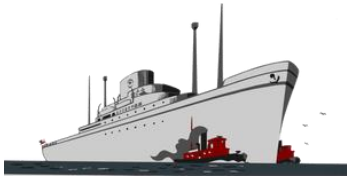


Cork ____
...

The coin sinks and falls onto the bottom because...



The boat floats because...



Stones sink and fall onto the bottom because...

(all images adapted from the original one, released by publicdomainvectors.org under CC0 license)

Concepts				Examples		
	<p>The body floats.</p>	$W < B$	<p>Weight is lower than upward buoyant force.</p>		<p>Wood floats because...</p>	<p>the weight of the wood is lower than the upward buoyant force of the water.</p>