

Experiment: Ocean Acidification

Materials

- 6 mason jars
- Masking/painters tape
- Jug of vinegar
- Pitcher of brackish water (around 20ppt salinity)
- Beaker measuring at least 200 mL
- Scale
- 2 each of similar size: oyster shell, clam shell, jingle shell

Procedures

1. Label each of the jars with masking/painters tape, one each as follows: oyster VINEGAR, oyster BRACKISH, clam VINEGAR, clam BRACKISH, jingle shell VINEGAR, jingle shell BRACKISH.
2. Formulate a hypothesis for what you think will happen to the shells after three days in their respective solution. Record your hypothesis on the Ocean Acidification Lab Report.
3. Weigh each of the shells, recording the weight under 'Pre Weight' on the Lab Report. Be sure to keep track of which shell will be used in which set up.
4. Measure out 200 mL of each solution, either vinegar or brackish water, and add it to the appropriate mason jar.
5. Before adding the shell to each mason jar, record your observation of the appearance of the shell under 'Pre Description' on the Lab Report.
6. Add the appropriate shell to each of the mason jars. Record any notes on what happens when the shell is added to the solution under 'Observational Notes.'
7. Leave the shells in the solution for three days, checking on the shell whenever you choose.
8. Return to the experiment on Day 3 and record the weight of each shell under 'Post Weight' on the Lab Report.
9. Note any changes to the appearance of the shell under 'Post Description.'