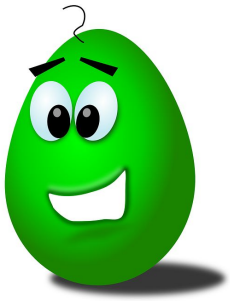
Parental supervision required

Lab Activity: Exo-Test



Purpose- to design and test the effectiveness of an exoskeleton for your model invertebrate.

Invertebrates are animals with no bones, specifically a backbone or spine. Many have soft bodies and require an exoskeleton or shell in order to protect themselves from predators and their environment. Exoskeleton means "outside skeleton."

Materials:

- Egg (uncooked)
- Household materials (i.e. paper towels, sponges, paper plates, straws, cups, dish towel, cotton balls, feathers, leaves, etc…)
- Rubber bands/tape/glue

Directions- You will be using an egg as your model for your soft bodied, fragile invertebrate. It is your task to design and build an exoskeleton to protect your invertebrate (egg.) You may use any materials you find in your house, with parent/guardian permission. To test the sturdiness of your exoskeleton after you have finished building it, release the egg from a height of 6 feet. If you would like, you can film your finished product and experiment and send to LBMI's social media (Facebook or Instagram). Regardless of your results, we would love to post your designs and submissions!

Result Reflection:

1) What materials did you use?

2) Did your design prevent your exoskeleton (egg) from cracking? Describe your results.

3) What could you change with your design/materials to offer more protection for your exoskeleton (be specific)?