

Jewel of Muscat

Activity Sheet: Beginners Science & Technology

1. Make a Trading Ship

A trading ship like the Jewel of Muscat is designed to carry a load of cargo safely. The amount of cargo a ship can carry depends on its size and shape.

Instructions:

- Roll your piece of modelling clay into a ball. Place your ball in the water container. What happens?
- Now shape the ball into a flat-bottomed ship. Test it to make sure it floats.
- Load your ship with cargo, one piece at a time, and see how many pieces you can carry.
- Change the size and shape of your ship to see if you can carry more cargo.

2. Answer these questions:

- What happened to the ball when you placed it in water? Why?
- What did you do to the ball to make it float?
- How many pieces of cargo did your first ship carry?
- How many pieces of cargo did your newly designed ship carry?
- What did you do to make your ship carry more cargo?

3. Write up your experiment and include diagrams.