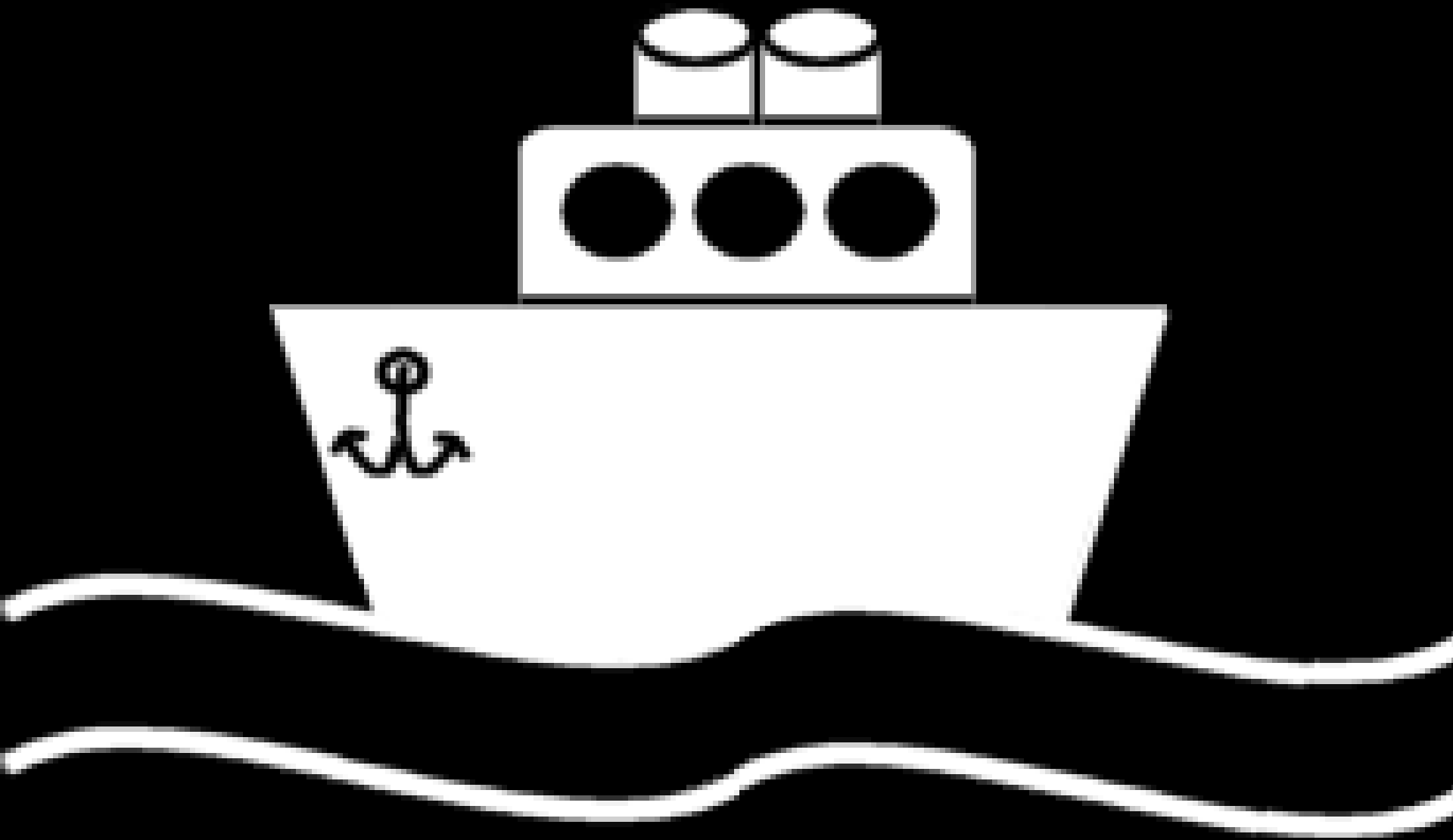


Boat Building – wc 15.06.2020



Task:

Use sheets of tinfoil (all the same size) to create boats with a different design.

Hypothesis– which one do you think will hold the most weight (the pennies)?

Place each of the boats in the same container of water. Do any sink with no extra weight? Add a penny to each of the boats one at a time. Which is first to sink? Which holds the most weight? What is the difference in shape in the most successful boat and the least successful boat?



Why does this happen?

How can you increase the **surface area** of the boat – how does this affect the **density** and then **buoyancy** of your boat?

The larger the **surface area** of the boat, the less the **density**. The **mass** of the object (how heavy it is) is spread out across the surface, allowing **up thrust** from the water to counter the **mass** and the object can float more successfully.

Click the link to watch a clip to support your understanding:

