

Barge Building

How can you change the shape of a clay ball to make it float?

How can you change the shape of a clay ball so it floats and hold pennies?

How can you change the shape of a piece of tin foil so it floats and holds pennies?

Materials: water, large plastic containers, tin foil (12" x 12" pieces), oil based clay, paper towels, pennies

Procedures:

What happens when you drop a ball of clay into water?

How could you make the clay float in water?

Create a shape with the clay that floats.

Add pennies to the clay "boat" and see how many it takes before the clay and pennies sink.

Can you build another shape and "build" a boat that will hold more pennies?

What happens when you place a flat piece of tin foil into the water?

How many pennies will the flat piece of tin foil hold?

Create a shape with the tin foil that will hold more pennies.

Record your results.



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