



Girl Guides
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Science Ideas for Brownies and Guides

Set these activities up as a round robin and have the girls do each activity in small groups. An adult or Pathfinder or Senior Branch Member should be supervising each table.

Is it full?

Materials:

2 large jars - the same size

rocks - just small enough to fit through the jars opening - divide into 2 equal piles

two equal piles of stones (or marbles)

two equal amounts of gravel (smaller than the stones)

two equal amounts of sand

two equal amounts of water

Have the girls fill the two jars in the following orders - one they start with the rocks, then the stones, then the gravel, then the sand and finally the water. The second they start with the sand, then the gravel, then the stones, then the rocks and finally the water.

Shake the jars lightly between each size of item

Have the girls discuss why there is more left over when you start with the smaller items then when you start with the larger items.

Pepper and soap

Materials

a cake pan with about 1/2" of water in it

pepper shaker

piece of soap

Sprinkle pepper on top of the water - do not stir

Put the piece of soap in the middle of the pan and watch the pepper

Move the piece of soap around and continue to watch the pepper

Pennies and Water

Materials

a clear drinking glass - filled to the top with water

a pile of pennies

Place the glass inside a shallow pan

Have the girls first drop pennies straight into the middle of the glass until it flows over - count how many it takes

Refill the glass to the top and have the girls carefully drop the pennies into the glass by sliding them down the side. Watch the water and see what it does. How many pennies does it take before the water over flows.

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Water and Oil

Materials

Two clear glasses filled with water

Small amount of vegetable oil

Small amount of food colouring

In one glass put a couple of drops of oil

In each glass put one or two drops of food colouring

Observe the differences of how the food colouring acts in the water with the oil and without the oil

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