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HOW TO MAKE...

AN EGG FLOAT



You will need:



Water



Glass or Jug



Salt



Method:

1. Fill the bowl or glass about $\frac{2}{3}$ full with tap water.
2. Drop the egg carefully into the bowl and observe it sinking to the bottom.
3. Remove the egg and add about 5 tablespoons of salt, test to see if your egg floats.
4. Add more salt if the egg still sinks.



The Science Bit

Objects sink in water when they are more dense than the water, by adding salt we make the water more dense, once the water is denser than the egg it floats.

You could also try other objects and see what else you can make float!





HOW TO MAKE... AN EGG BOUNCE



What happens to an egg when you drop it?
The shell smashes!

So how can we make an egg bounce?
Remove the shell...

You will need:



Eggs



White Vinegar

Method:



1. Fill a container with white vinegar, and carefully drop the egg inside. Make sure the egg is completely covered.
2. After a couple of days carefully rinse the egg, rubbing the shell gently.
3. Leave for another day in the vinegar if some shell remains and then rinse again.
4. Once the shell is removed carefully try to bounce the egg.
5. Drop carefully from quite a low height, the egg should bounce up from the surface.



The Science Bit



Investigation! Can you measure at what height it breaks? (maybe try this outside!)
Or how high it can bounce on different surfaces?

Think about how you can show your results! Think about using a table or a graph!



FUN WITH... ROLLING EGGS



You will need:



Eggs
(Hard boiled might be safest)



Materials
(bubble wrap, kitchen roll, velcro)

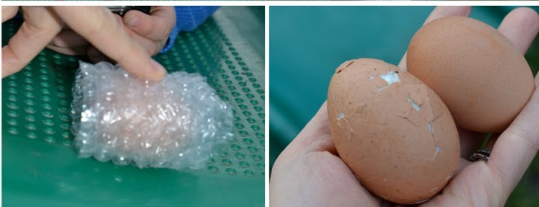
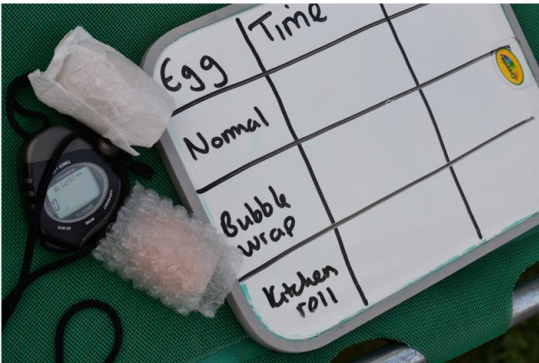


Stop Watch/Timer



Ramp or Slide

Method:



1. Decide on two markers on your ramp which you will use to time the amount of time the egg takes to travel down the ramp.
2. Place the egg at the top marker and let the egg roll down the ramp to the second marker stop the timer when it gets to the second marker and record the result.
3. Repeat 3 times, make sure you record your result each time.
4. Wrap bubble wrap around your egg then repeat steps 2 and 3.
5. Wrap kitchen roll around your egg then repeat steps 2 and 3.



The Science Bit



Investigation! Can you think of any more materials to try? What do you think slows down or speeds up the egg? Does friction play a part?
Did any of the eggs break? Which material protected the egg the best?

Can you make a parachute for the egg to protect it from a fall?

