



Name: \_\_\_\_\_

Class: \_\_\_\_\_

# Egg Science Experiments

## Magic Bouncy Egg

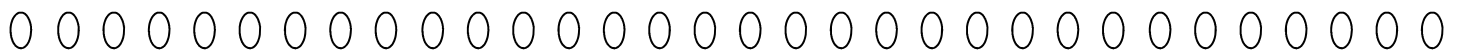
*Materials:*

- Saucepan
- Water
- White vinegar
- Egg
- Clean glass jar with lid

*What happened to the eggshell?*  
The vinegar (acid) dissolves the eggshell and leaves you with a rubbery egg. Try bouncing the egg from a short distance; do not drop from too much of a height.

*Method:*

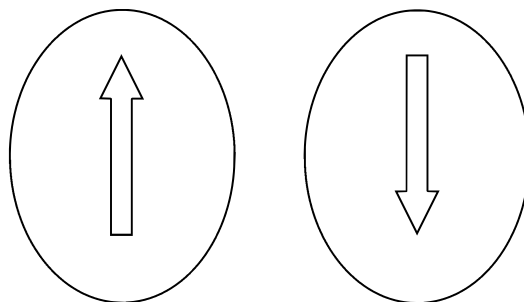
1. Place the raw egg in the saucepan and cover with water.
2. Bring the egg to the boil and cook for a further 10 minutes to make sure the egg has been cooked throughout.
3. Drain the boiled water from the pan and leave the egg to cool.
4. Gently place the hard-boiled egg into the glass jar.
5. Slowly pour in the vinegar until the egg is completely covered.
6. Tightly screw the lid onto the jar.
7. Leave the egg in the jar for at least a week. Record the changes daily.
8. After the week has passed, drain the vinegar from the jar. Rinse the egg under water and carefully dry with a paper towel.



## Float or Sink?

*Materials:*

- Table salt
- Two bowls
- One tablespoon
- Two eggs



*Method:*

1. Fill both bowls with warm tap water.
2. Add a few tablespoons of salt to one of the bowls and stir until all the salt has dissolved.
3. Carefully place an egg in each bowl.
4. One egg will float and the other will sink—which one floats and why?

The salt water is heavier than the plain tap water, so the weight of the egg does not have to push away as much water to make space for itself and therefore it floats.



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## Pressure Experiment

*Materials:*

- Hard-boiled egg
- Clear glass jar with a small mouth
- Fine craft wire
- Candle
- Matches

Is it possible for an egg to be sucked into a jar opening that is smaller than the egg itself?  
Watch and be amazed!

*Method:*

1. Carefully peel the egg shell from the hard-boiled egg once it has cooled down.
2. Take a used, tapered candle (around 5 cm in height) and wrap some of the fine wire around the base of the candle leaving a long strand/lead so that the candle can be lowered into the jar and rest standing at the bottom of the jar.
3. Light the candle and carefully lower the candle to rest at the bottom of the jar. Leave the wire string draped over the top of the jar.
4. Place the egg on the top (mouth) of the jar.
5. Watch and wait to see what happens!

An egg is not a solid; it has air pockets like a sponge. By burning the air in the jar you decrease the pressure inside the jar which causes the egg to decrease in size and become a solid, and so it slips through the opening of the jar.

