

Learn about static electricity

- 1) Rub the balloon on your head.
- 2) Next you will put it over the salt and pepper without touching it, but first what do you think it will do.
- 3) Try it
- 4) What happened? Why? Turn over the card to check your answer

Learn about density

- 1) Feel the lemon and the lime.
- 2) Decide whether they will sink or float?
- 3) Now put them in the water and see what happens? Why? Turn over the card to check your answer.
- 4) Now take the other items, guess whether they will sink or float and try it out.

Learn about static electricity Answered

Pluses and minus attract.

When you rub the balloon on your head, electrons (the minuses) move from your head to the balloon.

Then when you put the balloon over the salt and pepper the positive charges in them wants to move to get to the negative charge.

Learn about density Answered

Things float when the parts are light and the parts are spread apart and there is air inbetween.

Things float when the parts are heavy and the parts are packed tightly together.

The lime probably sinks since it is heavy for its size and when you squeeze it it feels solid, so it has heavy parts without much air in between.

The lemon probably floats because it is lighter when you hold it and it squeezes easily (so there is air in between the parts.

Learn about Ice Cream

- 1) Put $\frac{1}{2}$ cup water, $\frac{1}{2}$ cup salt, and 1 cup of ice in the big bag.
- 2) Put your little bag with juice in the middle.
- 3) Shut the bag well.
- 4) Shake until ice cream forms.
- 5) Why does this happen? Note that this only works if you use salt. Turn over the card to check your answer.
- 6) Get out a spoon and enjoy

Make a balloon blow up without breath

- 1) Measure 1 teaspoon baking soda into the bottle
- 2) Add 2 Tablespoons vinegar
- 3) Quickly put the balloon on top
- 4) What happened? Why? Turn over the card to check your answer.

Learn about Ice Cream Answer

The salt makes the ice colder, so that the juice will freeze (the freezing point is lowered)

Make a balloon blow up without breath Answered

The baking soda and vinegar create a gas from the solid. Gas takes up more room than solid, so it pushes the balloon out.

Silly Putty

1) Add the following items to a bowl and mix well

3 T. c glue

1 T. liquid.

$\frac{1}{4}$. c water

a few drops of food coloring

2) What is this? Is it a solid or a liquid?

Turn over the card to find out

Silly Putty Answered

Silly putty is a fancy kind of thing called a colloid which is when something is in between a solid and a liquid