



LEAK PROOF BAGS

MATERIALS:

Zip Loc Sandwich Bags
Sharpened Pencils

Water
Wooden Skewers

VOCABULARY:

Polymer Molecules Plastic

DIRECTIONS:

1. Fill the plastic zipper-lock bag with water more than half full.
2. Seal the bag.
3. Take your pencils or skewers and carefully poke them through the bag and through the water, out to the other side.
4. Repeat several times!
5. When you are finished, hold the bag over the sink or a bucket and remove the pencils.
6. Toss the bag in the recycling bin and dry the pencils.

THE STEAM BEHIND THE EXPERIMENT:

The plastic bag is made of polymers. Polymers are long chains of molecules. When you poke through the plastic, you are stabbing between the long strands of polymers and the bag seals itself around the pencil keeping the water inside.

MAKE IT AWESOME:

Try puncturing the bag with wooden skewers!

EXTENSIONS:

1. Try using a larger Zip Loc Bag- try quart and gallon bags!
2. Add sodium polyacrylate crystals (found in diapers) to the water in the bag and see what happens when the water turns into a gel.

WEBSITES AND VIDEOS:

1. Balloon and Skewer Experiment: <https://stevespangler.com/experiments/skewer-through-balloon/>
2. Slime: <https://stevespangler.com/experiments/glue-borax-gak/>



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