



High Touch High Tech®

Science Experiences That Come To You™

Bag Stab

Supplies:

- Large plastic tub
- Gallon size zip lock bag
- Water in a pitcher
- 3-4 skewers
- Vaseline

Instructions:

1. Fill your bag with water carefully and seal it. Do they think the water will stay in the bag if you stab it?
2. Dip your skewer in Vaseline. Have an adult hold the bag over the tub.
3. Push your skewer into and through the bag, leaving it in the bag with an end sticking out of each side.
4. Repeat until all your skewers are in the bag.
5. Make observations. Is there a lot of water coming out? Why do you think it stayed in the bag? What do you think would happen if we removed skewers?
6. Hold your bag over the tub and remove the skewers and observe the fun that happens

The Science Behind it:

The skewer prevents the water from leaking even though the bag is stabbed right through. 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 skewer keeping the water inside.