



Science Activity

Leak proof bag

Time to prepare: 5 minutes



□ Please, stay safe and ask a grown up to supervise you

Resources/ things you need

- One Zip Lock bag
- Water (enough to fill up the Zip Lock bag)
- Five Sharp pencils

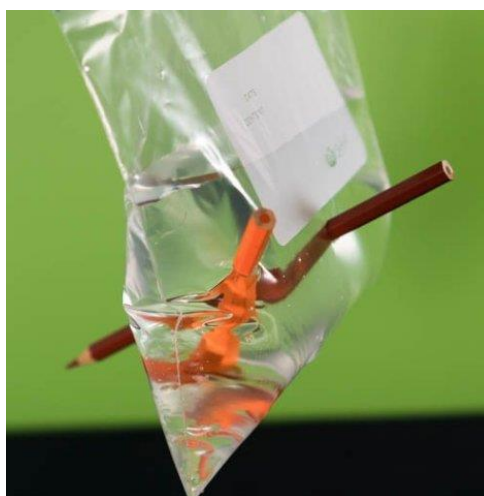
What to do

1. Fill the zip lock bag with water and close it.
2. Hold up the zip lock bag and poke it with the sharp end of the pencil. Push the pencil all the way through the bag. **Try fast vs. slow, which works better?**
3. See how many pencils you can stab into the bag before it starts to leak!

Background and the link to learning

This works because the bag is made of a plastic polymer - which is long, flexible chains of molecules. When you poke the pencil through the bag, the molecules in the plastic spread apart and then use friction to seal themselves back around the pencil.

Pictures



[Link to other similar activities](#) - Please see magnetic fishing.

