



## SFU SCIENCE IN ACTION

### **NO LEAK SANDWICH BAG**

In this experiment, try to see how many skewers and pencils you can insert into a sandwich bag before losing any water!

#### Allergy risks and safety:

Be careful with any sharp skewers and pencils that are used

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Sandwich bag

Water

Several skewers or pencil crayons

Tray

A responsible adult

#### Procedure:

1. Fill a sandwich bag at least half full with water
2. Holding the bag over a tray, try inserting as many skewers as you can using the sharp end to poke through both sides of the bag
3. How many are you able to insert before you start losing water?
4. Try using sharpened pencil crayons
5. How many pencil crayons can you insert?

#### What happened?

Sandwich bags are made from flexible polymers which are long strands of molecules. When a skewer or pencil is pushed into the bag, these polymers are pushed apart and also squeeze back onto the skewer or pencil creating a seal!