



High Touch High Tech®

Science Experiences That Come To You™

STEM Snow Globe ©

Supplies Needed

- Ziploc Storage bag
- Bendable drinking straw
- 2-3 Styrofoam packing peanuts

Procedure:

1. Start out by decorating the bag with markers. Get as creative as you want! Make sure to use permanent markers so the design stays on the bag.
2. Crumble the peanuts into smaller pieces. Think about how large or small you want your snow to be!
3. Snip one of the bottom corners of the bag with the hole punch. Bend the straw and stick the short end into the hole by about a half inch. Tape to secure it in place.
4. Open the top of bag and put your snow inside. Close the bag almost all the way – leave a small gap open, directly opposite the corner that has the straw. This will allow the air to circulate.
5. Blow in the long end of the straw to see your snow globe go! Try rotating or shaking the bag as you blow to get the snow going. You might need to put your fingers into the seam of the opening to keep the circulation of air going. Make sure the opening doesn't get too big, or all the snow will blow right out!

Science Behind It:

Air can be a very powerful force, and you can see here that propelling your air through the straw gives it the energy it needs to fly around the bag, pulling the “snow” with it! Have you ever seen the snow swirl in the wind? Winter storms can be quite powerful thanks to the wind!

The opening at the top releases some of the air pressure allowing the air to keep moving as it tries to fill up the bag. What would happen if you sealed the bag? The bag would fill to the max and the air movement would stop.

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