Angeles City Science High School

Science 10

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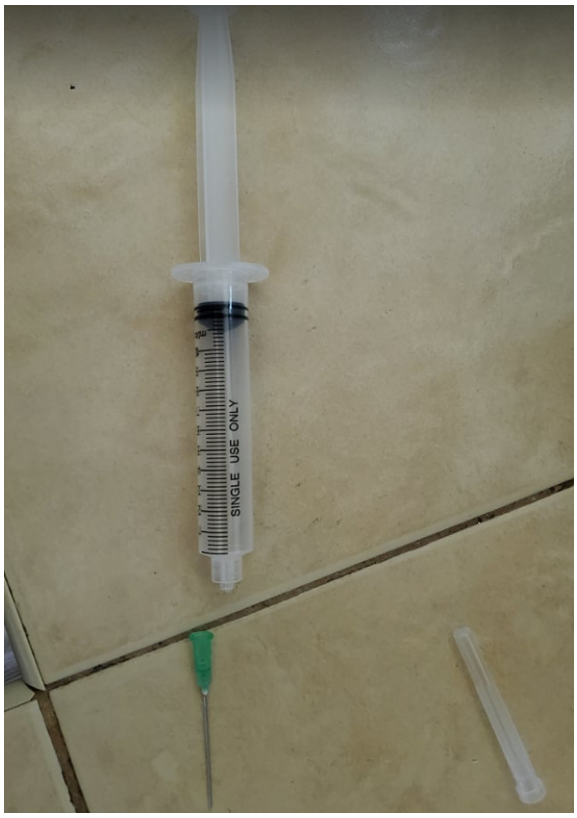
Activity 3. Are you affected?

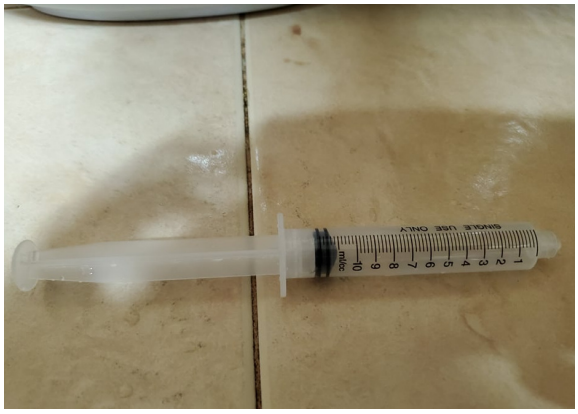
Objective: Find out the effect of pressure on the volume of gas.
Material: syringe

Procedure

1. Carefully remove the needle from the syringe. Wash and dry the syringe.



2. Notice that there is a numbered scale on the syringe, which indicates the volume of the air inside it. The number touched by the end of the plunger is the volume of the air. This will be your initial volume.



3. Cover the tip of the syringe with your thumb as shown in the picture.

4. With your other hand, push the plunger slightly.
5. Note the volume of the air inside the plunger. This is your final volume.

Guide Questions

1. Was there a change in the volume of the air inside the syringe? If there was, did it increase or decrease?

The volume of air inside the syringe decreased from the initial measurement which is 10ml to 3ml after pushing it with my hand.

2. What caused this change in the volume of the air?

The volume of the air decreased from initial value until our hands can't push it further. The limit of pushing it is the force that you applied in pushing the syringeand how tightly sealed the tip of the syringe is.