Balloon Lift Activity

In this activity you will observe whether a balloon can do work

Materials

* Straw
* Balloon
* Stong tape
* Textbooks
* Strong elastic band

Procedure:

1. Insert a straw into the mouth of the balloon, Seal the straw on the mouth of the balloon using tape. Wind the elastic band around the tape
2. Place a book on the balloon. Blow steadily into the straw observe what happens
3. Place one book at a time on top of the first book. Record how many books you can lift by blowing into the straw

Discussion:

1. What provided the force to lift the books?
2. Draw the particles of air inside the balloon and try to explain how they are behaving when doing the activity
3. Think of some words to describe the results of the activity. What words would you use
4. What do you think this activity demonstrates
5. What could you do to lift more books then was achieved in the activity?

When you have finished, read pages 290-294 in your textbook. Summarize the key ideas from each paragraph in the space below.

Bill Nye

While watching, answer the following questions

1. What happened when Bill Nye lifted the bucket of coloured water? Draw a picture to explain
2. What causes the card to stay on the small glass? Draw a picture to explain.
3. Why are the turbines located at the bottom of a dam?