

**A. Fill in the blanks to complete the sentences about air. Then check ✓ the characteristics of air.**

I am **Air**

I take up \_\_\_\_\_ .

I expand when \_\_\_\_\_ .

I resist things \_\_\_\_\_  
through me.

I am not a liquid, not a  
\_\_\_\_\_ .

In fact,

I am a \_\_\_\_\_ .



heated    solid    gas  
space    moving




### Characteristics of Air

- A Air has a smell.
- B Air takes up space.
- C Air is colourful.
- D Air gives off light.
- E Air expands when heated.
- F Air resists things moving through it.

**B. Match each picture with the characteristic of air that it shows.**


- A** Air resists things moving through it.
- B** Air expands when heated.
- C** Air takes up space.

1.



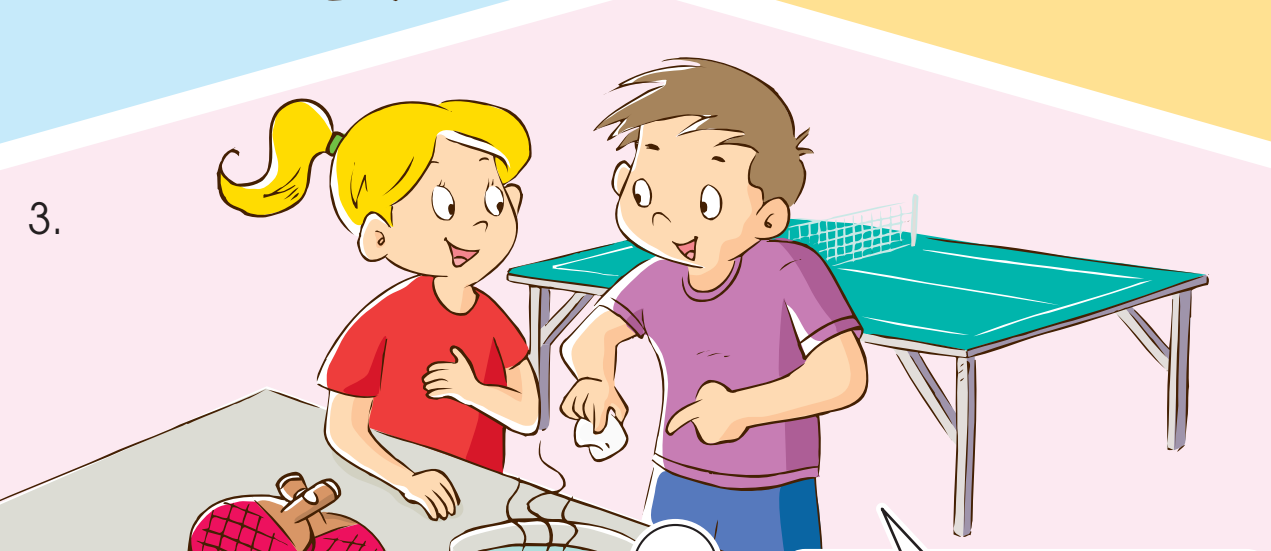
**falls slowly**

2.



**does not flatten completely**

3.

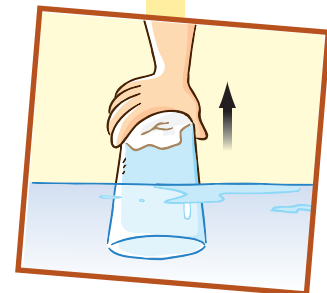


*This deformed table tennis ball will recover its shape in hot water.*

- C. Read the experiments and try them with an adult. Then circle the correct words and write the characteristics of air that the experiments show.

### Experiment 1

1. Tuck a crumpled tissue tightly into the bottom of a glass.
2. Hold the glass upside down over a sink full of water and without tilting the glass sideways.
3. Force the glass down into the water until it is fully immersed. Pull the glass out of the water the same way.



### Results of the Experiments

1

The tissue paper **becomes wet / stays dry** because the water cannot enter the glass.

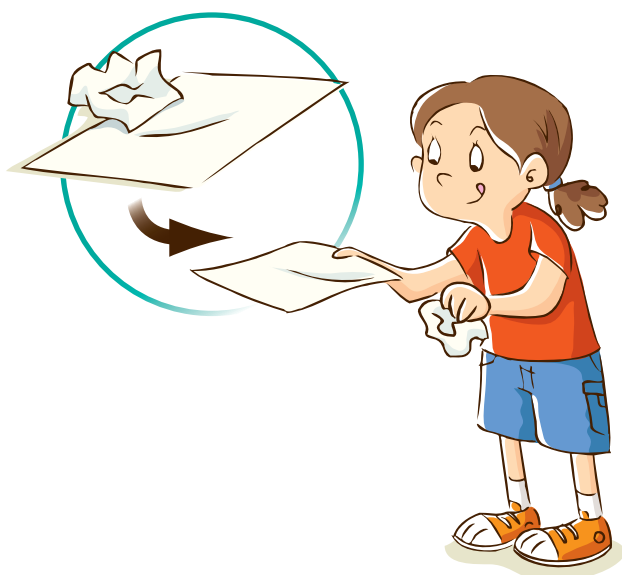
2

The **crumpled / intact** paper reaches the ground first because it has less area in contact with air.

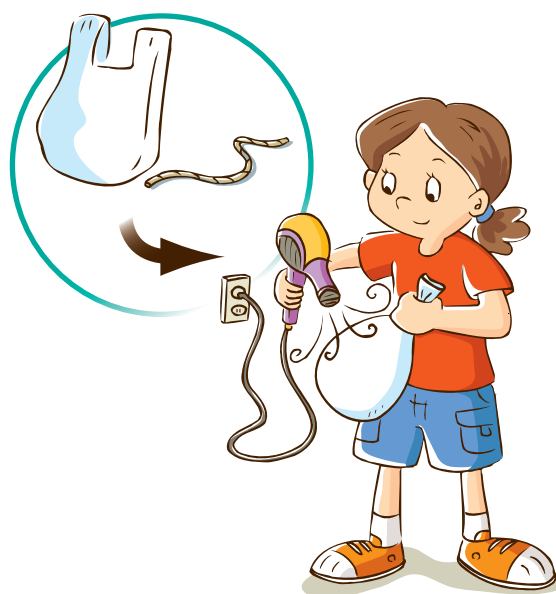
3

The plastic bag **expands / shrinks** as the air inside it expands.



**Experiment 2**

1. Get two pieces of paper, identical in weight and in size. Crumple one of them.
2. Drop them at the same time and from the same height.

**Experiment 3**

Blow up a plastic bag and twist it closed. Blow hot air at it with a hair dryer.

**Characteristics of Air  
Shown by the Experiments**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_