Change in Water Levels

Focus

Students often have preconceived ideas about volume, space and liquids. In this activity they can explore the water level changes when a half-filled bottle is placed in different positions. Applications of this principle are used daily in the building and survey fields.

Materials

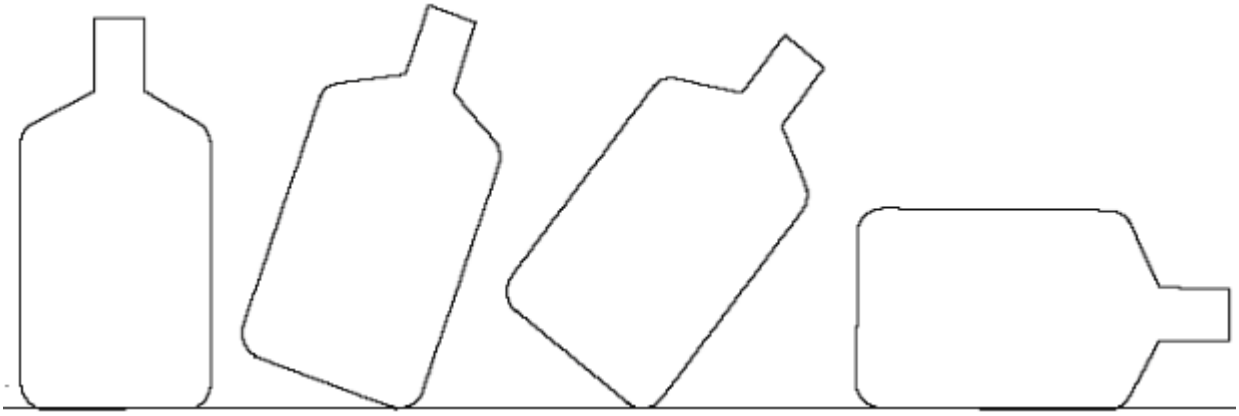
- 1 transparent water bottle,
- 2 coloured pencils,
- water

Procedure

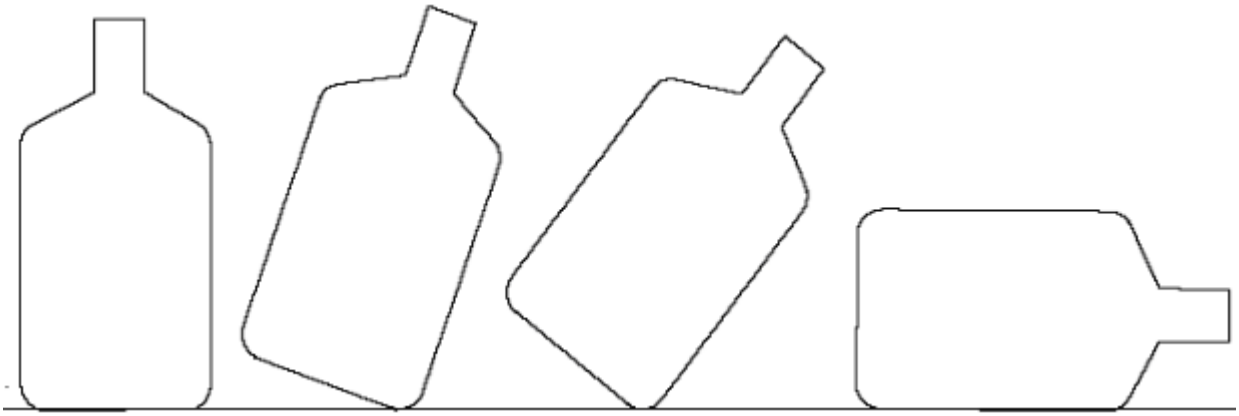
- ➢ Imagine your bottle is a little over half-filled with water. Draw your hypothesis for the water level in first bottle group illustrated!
- ➢ Now half-fill your transparent water bottle with water and find out whether your hypotheses are correct!
- ➢ Draw the water level your have observed into the results diagrams using the same colour!

Q Does the water level change if you place a half-filled bottle in different positions?

Predictions



Results



Compare your results with those of your classmates! Try to find an explanation for your results!