

Activities

- A** Suitable conditions for germination

◀ Experiential Learning

Fix three soaked seeds on a glass slide at different levels with a piece of thread (as shown). Carefully place the slide in a beaker half-filled with water. See that one seed is completely under water, one is touching the water and the third one is above the water level.



Observe them for a few days. Remember to always keep the middle seed moist.

A seed needs _____, _____ and _____ to grow.

- B** Will light pass through it?

◀ Experiential Learning/
Application of Knowledge

Materials that allow light to pass through them are said to be transparent. Materials that do not allow light to pass through them are opaque. Materials that allow some light to pass through them are translucent. We cannot see through them clearly.

Colour the box green for transparent material, red for opaque and blue for translucent.

- | | | | |
|----------------------|--------------------------|--------------------|--------------------------|
| 1. wood | <input type="checkbox"/> | 2. glass window | <input type="checkbox"/> |
| 3. book | <input type="checkbox"/> | 4. spectacle glass | <input type="checkbox"/> |
| 5. clean plastic jar | <input type="checkbox"/> | 6. metal container | <input type="checkbox"/> |
| 7. clay pot | <input type="checkbox"/> | 8. polythene bag | <input type="checkbox"/> |

- C** Use the given code to find out what one rock said to the other.

◀ Problem Solving

A	∇	E	□	I	◻	M	—	Q	⊕	U	⊔	Y	>
B	^	F	⊞	J	+	N	∠	R	□	V	⊐	Z	=
C	□	G	◻	K	⊕	O	◻	S	⊐	W	⊖		
D	□	H	◻	L	⊕	P	◻	T	⊐	X	<		

⊕◻⊐ ⊔⊐ ◻◻◻⊕ ∇∠ ◻◻⊕⊕

- D** Reduce, recycle and reuse!

◀ Life Skills & Values

The symbol given below tells us to reduce, recycle and reuse. We must try and throw away as little garbage as we can. We must reduce, recycle and reuse things. Keep a watch on the dustbins in your house for three days. Record at least three things that you can reduce, recycle and reuse.



Reduce

Recycle

Reuse

E Read the clues. Complete the word puzzle.

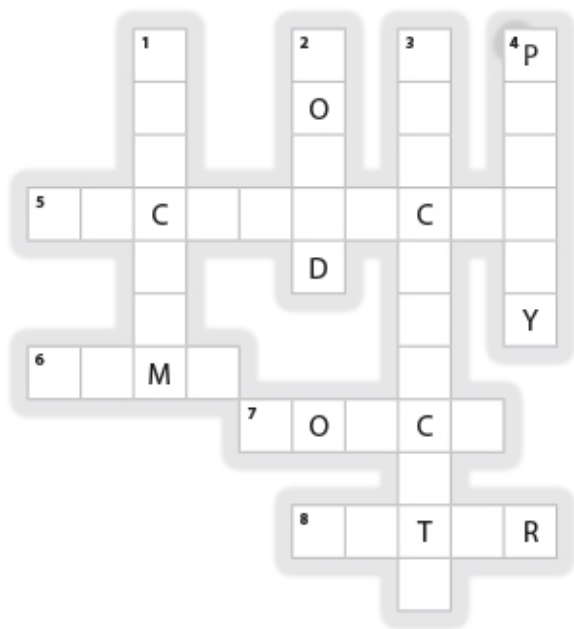
◀ Conceptual Understanding, Problem Solving

ACROSS

- 5 Kinetic and potential are types of this form of energy. (10)
- 6 This is an example of an inclined plane. (4)
- 7 A push or pull acting upon an object (5)
- 8 Hydroelectricity is obtained from this source of energy. (5)

**D
O
W
N**

- 1 In a first-class lever, this lies between the load and the effort. (7)
- 2 This is produced when a force causes an object to vibrate. (5)
- 3 Movement of electrical charges through a wire (11)
- 4 A simple machine that has a small wheel with a groove around its outer edge (6)



F Experiment to observe air pressure in a dropper

Critical Thinking, Conceptual Understanding, Experiential Learning

AIM: To observe air pressure

YOU WILL NEED: A dropper, water in a bowl

PROCEDURE:

1. Press the bulb of the dropper.
2. Keep it pressed as you dip the dropper in water.
3. Now, release the bulb.



Observe that water is sucked up into the tube of the dropper. What do you conclude? Choose the correct option.

1. When the bulb is pressed
 - a. air goes into the dropper.
 - b. air goes out of the dropper.
2. When the bulb is released in water
 - a. air pushes water into the dropper.
 - b. water pushes air into the dropper.

G Make your own siphon.

Creativity, Scientific Temper

1. Fill two large jars with water and place them at different levels as shown.
2. Hold one end of a plastic tube in the jar kept at the higher level.
3. Suck air out from the tube completely. Leave this end of the tube at a lower level. What happens?



Projects

A Find out.

◀ Digital Literacy & Application of Knowledge

Find out examples of friction in your daily life. Write whether it is advantageous or disadvantageous in each case. Make a PowerPoint presentation based on your findings.

B Make a chart.

◀ Collaboration

Work in groups to make charts on different organ systems. Display all the charts in the class.

- Form four groups of students in the class.
- Each group will collect information on the specified organ system.
- Each group will prepare a chart to show the different parts of the system and their functions.

Group 1: Skeletal system Group 2: Nervous system

Group 3: Circulatory system Group 4: Excretory system

C Class project.

◀ Life Skills

- Tick (✓) the method used in your home to make drinking water safe and germ-free.
 1. boiling
 2. filtering
 3. water purifier
 4. any other
- Find out how the drinking water in your school is made safe for drinking.
- Find out how at least two of these methods help in keeping drinking water safe.
- Draw all these methods of purification of water in your scrapbook.

D Making use of waste

Multidisciplinary Approach,
Art Integration

If you go to any hilly or mountainous region, you will find smooth, round stones near the banks of rivers and streams. You can collect these stones and create beautiful stone art by following the given steps.

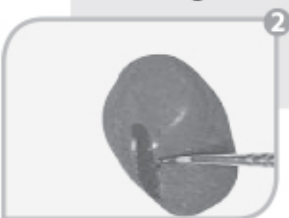
You will need:

- smooth and round stones
- acrylic colours
- a paintbrush

Draw your design on a stone.



Use a paintbrush and acrylic colours to fill in the design.



Colour the bigger parts of the design first and then the smaller ones.

Allow the colour to dry. You can use the stone as a paperweight.

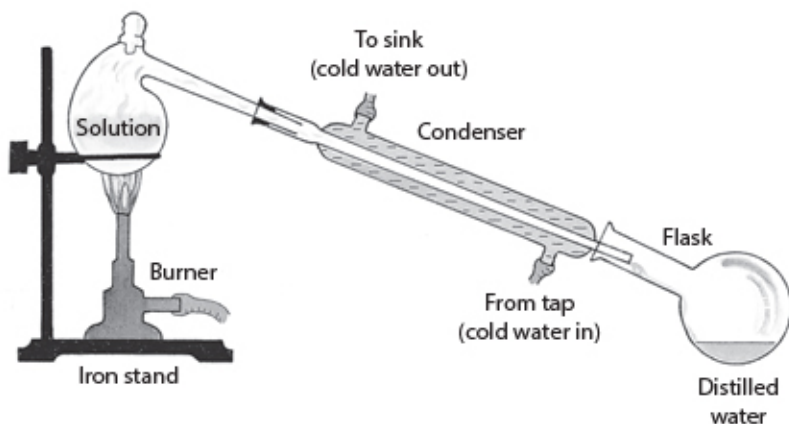
It's a fact!

In the mountains, the fast-flowing streams break rocks and boulders and carry them along. These rocks roll and slide with the streams. In the process, they rub against each other and become round and smooth.

SAFAL

Sample Questions

- A Look at the given picture and answer the questions.



1. Name this process of removing impurities from water.

2. What kind of impurities can be removed by this process?

3. Number the steps of the process correctly.
___ On cooling inside the condenser, water vapour changes into water again.
___ The water vapour then enters a condenser.
___ Impure water is heated till it starts to boil.
___ The pure water, called distilled water, is collected in a flask.
___ On boiling, water evaporates to form water vapour and impurities are left behind.

B Read the paragraph and answer the questions.

You need food to get energy to do work, to grow, and to stay healthy and strong. To remain healthy and strong, we must have wholesome food, that is, food which is good for us. Food has some special substances in it called nutrients. Our body needs these nutrients to grow and stay healthy.



- Which of the following provides energy to the body?
 - bread
 - sugar
 - rice
 - all of these
- Which of the following is a good source of protein?
 - rice
 - milk
 - bread
 - apple
- Which of the following is a good source of minerals?
 - bread
 - oil
 - sugar
 - fruits and vegetables
- Which of the following is a communicable disease?
 - obesity
 - anaemia
 - allergy
 - measles
- Which of the following is not a communicable disease?
 - measles
 - goitre
 - chickenpox
 - typhoid
- The deficiency of which of these causes night blindness?
 - calcium
 - vitamin A
 - iodine
 - vitamin D