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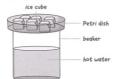
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Activity 1 Model of Water Cycle

- Aim: To use a model to observe how the natural water cycle works
- > Process skills: Observing, analysing
- Materials: Beaker, hot water, Petri dish, ice cubes

Procedure and Observations

- Half-fill a heaker with hot water.
- 2. Place a Petri dish over the mouth of the beaker immediately. Ensure that the mouth of the beaker is fully covered by the base of the Petri dish.
- 3. Place a few ice cubes in the Petri dish.



4. Observe what happens inside the beaker.

Qι	uestions	
	What is the purpose of placing ice cubes on the Petri dish?	

Fill in the blanks below to show the changes in the state of water in the experiment.

state Gaseous state Liquid state

[hot water]

- 3. What happened to the ice cubes at the end of the experiment?
- 4. Name the part of the set-up that represents each of the following.
 - (a) Oceans and seas:
 - (a) Occario ana seas.
 - (b) Sky: ____
 - (c) Clouds:
 - (d) Rain: _____

Conclusion

The processes of ______ and _____ took place and

The set-up is a model of the

The processes of ______ and ______ took place and resulted in the formation of water on the base of the Petri dish.

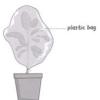
Activity 2 Role of Plants in the

Water Cycle

- Aim: To find out whether plants give out water vapour
- > Process skills: Observing, comparing, inferring
- Materials: Potted plant, water, two transparent plastic bags, two pieces of string

Procedure and Observations

1. Water a potted plant and wrap it with a plastic bag as shown below. Tie the mouth of the plastic bag with a piece of string. Label the plastic bag A.



- 2. Fill the other plastic bag with some air. Tie its mouth with a piece of string. Label the plastic baa B.
- 3. Place the potted plant wrapped in plastic bag A, and plastic bag B in a sunny place for one hour.
- 4. Observe and record what you see in plastic bags A and B. Plastic bag A:

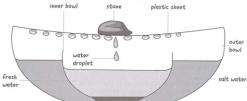
Plastic baa B:

Activity 3 Role of Oceans in the Water Cycle

- Aim: To explain the role of oceans in the water cycle
- > Process skills: Observing, analysing, inferring

Procedure and Observations

Work in groups. Study a model of the water cycle below.



- Discuss the following questions and write down your answers.
 - (a) Which part of the model represents an ocean?
 - (b) What is needed for this model to work? Explain your answer.
 - (c) Much of the water on the Earth is found in oceans. What is the role of oceans in the water cycle?



Activity 4 Shaping the Earth's Surface

- Aim: To observe and explain the effect of running water on the surface of soil
 - Process skills: Observing, communicating
- ▶ Materials: Baking tray, dry sandy soil, large tray, thick book, watering can, water

Procedure and Observations

- Fill a baking tray with dry soil. Gently make the surface of the soil level. Do not
 pack the soil in the tray tightly.
- Make the baking tray slanted by placing one end of the tray in a large tray and the other end on a thick book.
- Fill a watering can with water.
 Pour water continuously from the
 watering can into the higher end of
 the baking tray.
- Observe what happens when the water runs down the tray. Record your observation below.

surface of the land and can result in soil



Conclusion

The surface of the Earth is not even. When running water or runs over the surface of land, soil is carried away. This ______ the

