

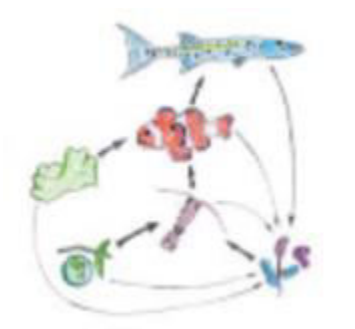
Science and Environment (Level 3)
Assessment Questions

Adventure in the Planet Kingdom

1. Which part of a plant transports water and nutrients upward?
2. _____ is the process through which plants make their food.
3. Define soil erosion.
4. Draw the life cycle of a plant. Label each stage and explain what happens in that stage.
5. What will the earth look like in 20 years if desertification continues to spread? How will our life be affected?
6. Draw a scene illustrating this and/or write a paragraph about the effect of desertification.
7. What will we observe after two weeks if we place a seed in a jar filled with wet cotton?
8. List two uses of plants in our lives.

My Animal Park

1. Define the following terms:
 - a. Food chain
 - b. Food web
2. What happens to animals when they die?
3. Label the following web using the following terms: producer, consumer, omnivore, carnivore.



4. Define adaptation.
5. Draw food web in a forest. Label all living things in the food web as producer or consumer.

- Imagine that a camel lives in the North Pole. How do you think the camel should look to adapt to this habitat? Draw and describe this imaginary camel that can live in the North Pole.
- How do the following animals adapt to their habitat: camel and polar bear? Mention one adaptation feature for each.
- Compare an animal park and zoo. List one difference. Which is better for animals? Why?

Water is Life

- Calculate area of circle with diameter 14cm ($\pi = 3.14$).
- Calculate area of square with side length 9 cm.
- What are the three states of matter?
- What is diffusion?
- Define any of the following: evaporation, condensation, precipitation.
- Explain with an example how diffusion happens (in gases & liquids).
- Compare the following and give examples: evaporation, condensation & precipitation.

OR

Choose the correct option:

- Steam from hot food or tea is an example of _____ (evaporation, condensation, precipitation)
 - Water drops on the mirror in a hot bathroom is an example of _____ (evaporation, condensation, precipitation)
 - Rainfall is an example of _____ (evaporation, condensation, precipitation)
8. Represent the following data using a pie chart:

Water body	% of world water
Sea	70%
River	20%
Lake	10%

9. What is 70% of the area of a rectangle with length 8 cm and width 5 cm?

10. What will happen to you if you only drink salt water? Explain why.
11. Can gases spread out in a solid medium? Why?

Flood Management

1. What is a flood?
2. Fill in the blanks: flooding can be caused by tropical storms called _____.
3. What is a barometer used for?
4. Fill in the blanks: A _____ is a device used to measure the speed of wind.
5. List 3 things that can cause a flood.
6. Draw a diagram to show how floods happen.
7. You can base your diagram on anyone factors that cause floods to happen.
8. List 1-2 differences between a flood and a drought. How do human settlements close to water bodies contribute to floods?
9. Choose the right answer: low atmospheric pressure may indicate that:
 - a. A storm is coming.
 - b. The weather will be fair.
 - c. It will snow.
10. What will happen if we reduce the number of plants around rivers? What impact will this have on floods?
11. Explain how deforestation causes floods.
12. What happens to our internet and phone connections during a flood?