

*Important Concepts . . .*

# **Preview Review**



***Science***

***Grade 7 TEACHER KEY***

***W2 - Quiz***

## Important Concepts of Grade 7 Science

W1 - Lesson 1 .....	Interactions and Interdependencies
W1 - Lesson 2 .....	Nutrient Cycles, Energy Flows, and Changes in Ecosystems
W1 - Lesson 3A .....	Environmental Impacts of Human Activities
W1 - Lesson 3B .....	The Particle Model of Matter, Temperature, Heat, and Change of State
W1 - Lesson 4 .....	Heat Transfer
W1 - Lesson 5 .....	Understanding Heat and Temperature in Nature and Technology
W1- Quiz .....	
W2 - Lesson 1 .....	Life Processes and Structure of Plants
W2 - Lesson 2 .....	Plant Propagation and Reproduction
W2 - Lesson 3 .....	Plant Needs and Growing Conditions
W2 - Lesson 4 .....	Role of Plants and Controlling Plant Growth
W2 - Lesson 5 .....	Review of Plant Management
W2 - Quiz .....	
W3 - Lesson 1 .....	Forces on and within Structures
W3 - Lesson 2 .....	Structural Forms
W3 - Lesson 3A .....	Materials Used in Structures
W3 - Lesson 3B .....	Rocks, Weathering, and Erosion - The Rock Cycle
W3 - Lesson 4 .....	Plate Tectonics and Related Events
W3 - Lesson 5 .....	Fossils
W3 - Quiz .....	

## Materials Required.

Textbook:  
*Science in Action 7*

Science Grade 7

Version 5

Preview/Review W2 - Quiz TEACHER KEY

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# Preview/Review Concepts for Grade Seven Science

## *TEACHER KEY*



*W2 - Quiz*



**W2 - Quiz**

Total \_\_\_\_/25

1. Label the diagram with the appropriate terms from the following list. (4 marks)

petal

anther

stigma

stamen



2. Choose from the terms provided to complete each sentence. Not every term will be used. (4 marks)

irrigation

nitrogen

biological control

osmosis

transpiration

photosynthesis

potassium

phosphorus

diffusion

artificial selection

- a. The nutrient that is necessary for plant flowering and seed production is

**potassium**.

- b. Water moves into the roots of plants by **osmosis**.

- c. **Artificial selection** is used to produce new varieties of plant.

- d. **Transpiration** is the loss of water from plant pores.

3. a. When a flowering plant produces seeds, is it reproducing sexually or asexually? (1 mark)

***sexually***

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- b. If you wanted to grow a plant using an asexual method, how could you do it? Name the plant and the method. (2 marks)

***Answers will vary, but could include tulips - bulbs, potatoes - tubers,***

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***patience plant - cutting, strawberries - runners.***

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- c. Describe an adaptation you might expect in a plant living in a warm desert. What is the purpose of the adaptation? (2 marks)

***Adaptation for water conservation (for example, thick, waxy, outer layer);***

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***adaptation for capturing water (for example, long tap roots or many***

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***shallow spreading roots).***

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- d. What is the function of leaves on a plant? (1 mark)

***To absorb sunlight and carry out photosynthesis.***

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- e. What sorts of things can someone do to improve the health of soil? (2 marks)

***Protect it from erosion and contamination. Add organic matter to it.***

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***Keep it from being compacted.***

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- f. Name some problems that can be caused by irrigation. (2 marks)

***Build up salt levels in soil, water-logged soil***

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- g. Give an example of biological control of a pest. Name both the insect controlled and the insect used to control. (2 marks)

***e.g. Lady bugs to control aphids.***

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- h. Name 2 roles of plants. (2 marks)

***Answers will vary. Some examples are oxygen production, shelter, food, clothing.***

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- i. What do plants need to capture and/or take in to perform photosynthesis? (3 marks)

***water, carbon dioxide, and sunlight***

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