Important Concepts . . .

# Preview Review

*Science* *Grade 7* *TEACHER KEY*

## *W3 - Quiz*

V5-07

## 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 W3 - Quiz TEACHER KEY

Publisher: Alberta Distance Learning Centre
In-House Teacher: Barb Philips
Reviewer: Norene Pinder

Project Coordinator: Dennis McCarthy
Preview/Review Publishing Coordinating Team: Nina Johnson, Laura Renkema, and Donna Silgard

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# Preview/Review Concepts
# for
# Grade Seven Science

## *TEACHER KEY*

***W3 - Quiz***

# W3 - Quiz

Total __ / 28

1. If you were making a container to hold heating oil, what properties would you want in the container's material(s) to have? (2 marks)

   ***Answers will vary but some properties that could be expected are insoluble in oil, leakproof, not easily burned.***

2. Use words from the following list to complete the sentences. Not all words will be used. (8 marks)

| | | |
|---|---|---|
| sedimentary | intrusive | index fossil |
| static | tension | compression |
| metamorphic | igneous | nail |
| glue | dynamic | outer core |
| mantle | cast | extrusive |

   a. A / an ***index fossil*** comes from an organism that was plentiful and lived in a specific known time.

   b. ***Sedimentary*** rocks are laid down in layers.

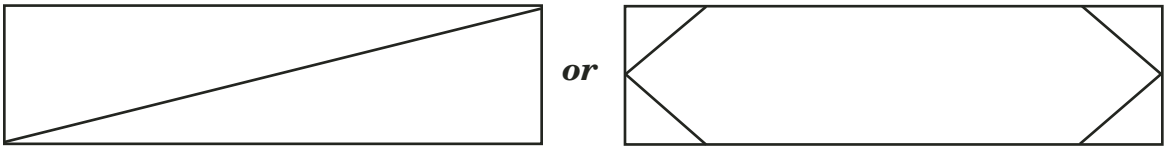
   c. The roof of a house is a ***static*** load on the house.

   d. Very small crystals are found in ***extrusive*** rocks; larger crystals are found in ***intrusive*** rocks.

   e. A pulling force is called ***tension*** .

   f. Something used to join materials that makes use of friction is a ***nail***.

3. a. Draw the best way of strengthening the structure in the diagram. (1 mark)



b. Explain why this makes the structure stronger than it was before the addition. (1 mark)

***It makes two triangles (or four triangles) which are stronger than a rectangle.***

4. If you say a material was sheared, what does that mean? (2 marks)

***It means that side-by-side parts are pushed in opposite directions.***

5. Define the term "force". (1 mark)

***A push or a pull***

6. Describe a corrugated material and explain why it is made in that manner. ( 2 marks)

***One layer folded into triangles, often placed between 2 flat layers.***

***It increases the strength of the material.***

7. What are two ways that mountains can be made? (2 marks)

***faulting, plate collision, volcano eruptions***

8. Fluorite has a hardness of 4. Topaz has a hardness of 8. An unknown mineral (X), was found and its hardness tested. Topaz scratched it but fluorite did not. Order the 3 minerals from least to most hard. (3 marks)

***Fluorite - Mineral X - Topaz***

9. Explain the Theory of Plate Tectonics. (2 marks)

***The Earth's crust is made up of a number of pieces/plates that move slowly on the semi-liquid mantle.***

10. How can a sedimentary or igneous rock be changed to a metamorphic one? (2 marks)

***By being exposed to intense heat or pressure (not enough to melt it).***

11. What does the Principle of Superposition tell about the age of fossils found in different layers of an undisturbed bed of sedimentary rock? (2 marks)

***The oldest ones will be at the bottom; the youngest at the top. They will increase in age the deeper they are found.***