

*Important Concepts . . .*

# **Preview Review**



***Science***

***Grade 7 TEACHER KEY***

***W2 - Lesson 5: Review of Plant  
Management***

## 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 - Lesson 5 TEACHER KEY

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# Preview/Review Concepts for Grade Seven Science

## *TEACHER KEY*



*W2 - Lesson 5: Review of  
Plant Management*

# OBJECTIVES

By the end of this lesson, you should be able to

- discuss management of plant resources and why it is important
- explain an unintended consequence and why we have to be careful not to cause negative consequences for the environment
- successfully write the quiz for this week's topics

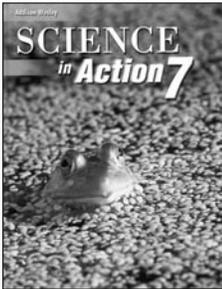
## GLOSSARY

**monoculture** - growing only one type of plant in an area

**unintended consequence** - something that was not planned or expected to happen as a result of an activity

## W2 - Lesson 5: Review of Plant Management

Because plants are so important to all living organisms on Earth, and because we are such a dominant species here, we must carefully manage our plant-related resources. We must manage them so that plants, animals, and humans benefit from that management. Read pages 133, 135, and 136 in *Science in Action 7*.



1. What sorts of activities are regulated in the forestry industry?

*Such things as when the forest can be harvested, which species can be harvested, how they can be harvested, how the area can be restored, and replanted after harvesting.*

2. What sorts of regulations dealing with drilling would you expect to be in place for the Oil and Gas Industry in regard to plant life?

*Answers will vary, but would probably include where drilling can take place, safety measures to prevent polluting the environment, reclaiming the drilling area, etc.*

3. Are you aware of any other laws or regulations that control the use of nature or what can be added to nature? Explain.

*Answers will vary depending on student's knowledge and who they have talked to.*



Management of our environment can lead not only to the desired outcome but also to unintended consequences. For example, when flooding is controlled, sometimes conditions along waterways are changed from being favourable to native species to being favourable to introduced species. Read pages 163 and 164 of your textbook.



4. What is an unintended consequence of building roads through forests?

***Predators can use them to reach prey. Motor vehicles can scare off wildlife. Habitat can be destroyed.***

5. Planting monocultures is common in many parts of the world.

- a. What are the intended consequences of this practice?

***To cut down on costs and fertilizer use, to make harvesting easier.***

- b. In what ways do monocultures harm the ecosystem?

***Give pests lots of food so there can be a population explosion. Reduces habitat, therefore biodiversity.***

In the time remaining, you should return to your first four lessons and review the material you learned this week. You will have a quiz on it before you go home.

