



## Science Focus Unit 2 – Plants for Food and Fibre Review Booklet

### Guiding Questions and Activities to Help you Study Key Concepts

#### Topic 1 People and Plants

Describe why plants are critical to the environment and to people?

---

---

How do plants adapt to different growing conditions?

---

---

What variations in roots, stems and leaves, help different species of plant, survive in their own particular environment?

Roots	Stems	Leaves

Give examples of plants that are used, as a food source for people, in medicine and as raw materials in the manufacturing industry.

Food Source	Medicine	Manufacturing ( raw materials )

#### Topic 2 Structure and Adaptations

What is **diffusion**?

---

---

What is **osmosis**?

---

---



## Science Focus Unit 2 – Plants for Food and Fibre Review Booklet

Describe the structural variations in roots, stems and leaves.

---

---

How do structural variations help a plant adapt?

---

---

### Topic 3 Plant Reproduction and Breeding

Describe the various ways that a plant can reproduce **asexually**.

Type of Asexual Reproduction	Process	Examples

**Sexual reproduction** in plants is complex process - describe the various components of this process and the structures that are involved.

---

---

How are new species of plants developed?

---

---

What is **selective breeding**?

---

---

Give various examples of how this practice has been successful and what negative consequences have resulted from this practice.

Successful Practice	Negative consequence



Science Focus Unit 2 – Plants for Food and Fibre  
Review Booklet

**Topic 4 Meeting the Need for Food and Fibre**

Describe a variety of **farming practices** past and present. How has technology influenced these farming practices?

Farming Practices		How Technology has influenced it.
Past	Present	

Describe a variety of **forestry practices** past and present. How has technology influenced these forestry practices?

Forestry Practices		How Technology has influenced it.
Past	Present	

What is meant by sustainable development?

---

---



## Science Focus Unit 2 – Plants for Food and Fibre Review Booklet

### Topic 5 Sustaining the Soil

Describe what makes **soil** and what determines the health of soil.

---

---

---

---

What components are **fertilizers** made of?

---

---

What consequences (positive and negative) does the use of this chemical additive to the soil have for the environment?

---

---

How can plants be grown in **soil-less** environments?

---

---

### Topic 6 Pests and Pest Control

Explain various farming practices and how technology has influenced their growth or decline.

Farming Practice	How Technology has influenced this practice

What effect has **monocultures** had on the agricultural community?

---

---



**Science Focus Unit 2 – Plants for Food and Fibre  
Review Booklet**

How are pests controlled in Alberta?

---

---

What is meant by the term **bioaccumulation**?

---

---

What are some negative impacts, as a result of chemical and biological pest control techniques?

---

---

Describe an alternative agricultural practice, such as **organic farming**?

---

---

Notes Index <http://www.edquest.ca/Notes/noteindex7.html>

Review Quiz Index <http://www.edquest.ca/Tests/testindex7sf.html>

**SCIENCE FOCUS 7 Textbook**

**Unit At A Glance Science Focus 7 p. 180**

**Unit Review pgs. 180- 183**