

Ecosystems continually change over time.

How do ecosystems change and how to organisms adapt to the change?

Learning Target	Resources
<p>Explain how species adapt or fail to adapt to environmental conditions, with reference to the following:</p> <ul style="list-style-type: none"> ○ natural selection (p.110) ○ proliferation (p.140,142) ○ predator/prey cycle (p.46,47,140,142) ○ ecological succession (p.111-114) ○ climax community (p.111-114) ○ extinction (p.131) ○ adaptive radiation (p.110) 	<p>Before You Read 3.1 Study Notes Template 3.1</p>
<p>Describe the impact of natural phenomena on ecosystems including:</p> <ul style="list-style-type: none"> ○ drought ○ fire ○ temperature change ○ flooding ○ tsunamis ○ infestations— pine beetle ○ volcanic eruptions 	<p>Section 3.1 p.115-117 WB p.38-39 WB p.40,42 Activity 3-1B p.118-119</p>
<p>Identify the effects on living things within an ecosystem that result from changes in abiotic factors caused by climate change. In some ecosystems, the appearance or change in intensity of the following phenomena have been attributed to climate change.</p> <ul style="list-style-type: none"> ○ drought ○ flooding ○ changes in ocean current patterns ○ extreme weather <p>How have these affected living things in the ecosystems?</p>	<p>Research Project</p>
<p>Identify the effects on living things within an ecosystem resulting from changes in abiotic factors, including:</p> <ul style="list-style-type: none"> ○ water contamination (p.130-131) ○ soil degradation and deforestation (p.128) 	<p>Before You Read 3.2 Study Notes Template 3.2 Section 3.2 p.122-136</p>
<p>Give examples of how traditional ecological knowledge (TEK) can affect biodiversity (e.g. spring burning by Cree in northern Alberta)</p>	<p>Section 3.2 p.133-134 WB p.44</p>
<p>Describe situations in which the following affect ecosystems:</p> <ul style="list-style-type: none"> ○ disease (p.140-141) ○ pollution (p.136) ○ habitat destruction (p.126) ○ exploitation of resources (p.130-132) 	<p>WB p.45,46,47</p>
<p>Give examples of how foreign species can affect an ecosystem. (e.g., Eurasian milfoil, purple loosestrife, scotch broom, American bullfrog, European starling in BC)</p>	<p>Before You Read 3.3 Section 3.3 p. 138-144 WB p. 50-51 WB p. 52-53</p>