

## Cycles of Change

*A cycle is a time interval in which a regularly repeated event or sequence of events occurs.*

**Part A:** Select 3 earth cycles and explain the cycle and its length and frequency and effect on the earth:

Hurricanes  
Earthquakes  
Volcanos  
Water cycle

Seasons  
Tides  
Day/night  
Cycles or phases of the moon

Name of cycle			
Length (how long it occurs)			
Frequency (how often it occurs)			
Effect on earth			

Describe 2 ways that 2 of the earth cycles connect:

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**Part B.**

1. Draw and label the water cycle below:

2. Draw and label the cycle of a plant's life below:

3. Explain how the water and plant cycles effect the earth:

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## Cycles of Change Scoring Guide

**Standard:** Students will gain knowledge about the earth and the processes that change it.

Maine Learning Result	1 Doesn't Meet	2 Partially Meets	3 Meets	4 Exceeds
F.2 Demonstrate an understanding that many things about the earth (e.g. climate) occur in cycles that vary in length and frequency.	Key understandings are missing or inaccurate in all areas. OR Key understandings are only done for 1 earth cycle.	Some key understandings are missing of the 3 earth cycles and their length or frequency. OR Key understandings are done for 2 earth cycles with limited understanding of length and frequency. OR Illustrations only are given.	Demonstration of 3 earth cycles is given. Length and frequency are explained in the process. Errors or omissions do not reflect major misunderstandings.	Demonstrations are accurate and thorough and connect the cycles and their effects on the earth. Length and frequency are explained accurately and thoroughly. The student connects 2 cycles.
F.4 Illustrate how water and other substances go through a cyclic process of change in the environment.	Illustrations of water cycle and plant cycle have no labels or explanations. OR Illustrations of water cycle and plant cycle are not completed.	Illustrations of water cycle and plant cycle are labeled. An explanation of how they change the earth's environment is missing. OR Illustrations or charts have missing or inaccurate information, OR Illustrations is presented with labels and explanations.	Illustrations of water cycle and plant cycle are labeled accurately and student explains how they change the earth's environment.	Both illustrations are accurate and thorough. Connections of the cycles are included to show changes in the environment.

Cycles/Cyclic Process –a time interval in which a regularly repeated event or sequence of events occurs

Many things/Other substances – trees, seasons, weather patterns, tides

Vary length – how long they occur

Vary frequency – of often they occur