

MAPPING GRADE 2 SCIENCE INSTRUCTION

Concept: Environmental Systems
PWC Strand: Environmental Science

CMS Unit Test: Ecosystems and Habitats
Reporting Category: Life Cycles & Living Processes

PWC Objective: 2.3.1

The student will investigate and understand that plants produce oxygen and food and are a good source of useful products. Key concepts include:

- important plant products **(SOL 2.8a)**
- the availability of plant products affects the development of a geographic area **(SOL 2.8b)**
- useful purposes of plants **(SOL 2.8c)**

What Students Should Know (Critical Attributes)	What Students Should Be Able To Do (Essential Skills)
<p><u>Essential Questions:</u></p> <ul style="list-style-type: none"> • What useful purposes do plants serve? • What are some products that are made of plants or plant parts? • Why do many living things, including humans, need plants? <p><u>Critical Attributes:</u></p> <p>Plants are one of the natural resources we rely on to meet our needs and wants. Plants benefit human beings as well as other living things by providing many useful products and materials.</p> <p>2.8a Plants can be used to make many important products. Plants contain cellulose, which is used to make paper and clothing (fiber and cotton). Their wood is used as a fuel source and for lumber for houses and furniture. Plant parts are also used in other commercial products, including paint thinner, rubber, chewing gum, spices, oil, and medicines.</p> <p>2.8b Plants may only grow well in certain geographic areas, thus enabling the production of plant products that allow humans to live in, as well as develop, those areas.</p>	<ul style="list-style-type: none"> • Comprehend that plants produce oxygen and food. • Classify and identify the sources and uses of plant products such as fiber, cotton, oil, spices, lumber, rubber, medicines, and paper. • Describe plant products grown in Virginia that are useful to people including wood, fruits, and vegetables. List and classify plant products.

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What Students Should Know (Critical Attributes)	What Students Should Be Able To Do (Essential Skills)
<p>2.8c Many living things depend on plants for the oxygen they produce and use them as a source of food (fruit, nuts, berries, spices, herbs, vegetables).</p> <p>2.8c Plants provide homes for many animals.</p> <p>2.8c Plants are also important in preventing soil from washing away.</p>	<ul style="list-style-type: none">• Construct and interpret a chart illustrating the plant foods consumed by different animals. • Compare and contrast different ways animals use plants as homes and shelters. • Construct and interpret a model that demonstrates how plants prevent soil from washing away.