Virtual Forest: SOL Links

(http://www.ext.vt.edu/resources/4h/virtualforest/)

4-H Virtual Forest modules can be used to supplement the following Virginia Standards of Learning. You may find more!

Let's *Cruise!!!*

Science

Scientific Investigation, Reasoning, and Logic

5.1 b) estimations of length, mass, and volume are made
d) accurate measurements are made using basic tools

Resources

4.8 d) forests, soil, and land

Math

Computation and Estimation

5.2 The student will create and solve problems involving addition, subtraction, multiplication, and division of whole numbers, using paper and pencil, estimation, mental computation, and calculators.

Measurement

5.9 The student will identify and describe the diameter, radius, chord, and circumference of a circle.

Old-Field Succession

Science

Scientific Reasoning and Logic

3.1 k) natural events are sequenced chronologically

Living Systems

4.5 d) habitats and niches
f) influence of human activity on ecosystems

Resources

4.8 b) animals and plants
d) forests, soil, and land

LS.11 The student will investigate and understand that ecosystems, communities, populations, and organisms are dynamic and change over time (daily, seasonal, and long term).

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Photosynthesis: Putting Together with Light

Science

Life Processes

4.4 c) photosynthesis (sunlight, chlorophyll, water, carbon dioxide, oxygen, and sugar)

Resources

3.10 a) the interdependency of plants and animals

4.8 d) forests, soil, and land

LS.6 The student will investigate and understand the basic physical and chemical processes of photosynthesis and its importance to plant and animal life.

a) energy transfer between sunlight and chlorophyll

b) transformation of water and carbon dioxide into sugar and oxygen

Sprawl

Science

Scientific Investigation, Reasoning, and Logic

3.1 a) predictions and observations are made

j) inferences are made and conclusions are drawn

4.1 b) hypotheses are formulated based on cause-and-effect relationships

Living Systems

4.5 a) behavioral and structural adaptations

f) influence of human activity on ecosystems

Resources

3.10 b) the effects of human activity on the quality of air, water, and habitat

4.8 d) forests, soil, and land

6.9 a) management of renewable resources (water, air, soil, plant life, animal life)

c) the mitigation of land-use and environmental hazards through preventive measures

LS.12 The student will investigate and understand the relationships between ecosystem dynamics and human activity.

b) change in habitat size, quality, or structure

c) change in species composition

d) population disturbances and factors that threaten or enhance species survival

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Timberrr!

Science

Resources

4.8 d) forests, soil, and land
6.9 a) management of renewable resources (water, air, soil, plant life, animal life)

The Tree Detective

Science

Life Processes

4.4 a) the structures of typical plants (leaves, stems, roots, and flowers)

Resources

4.8 d) forests, soil, and land

Trees: The Renewable Resource

Science

Force, Motion, and Energy

6.2 d) renewable energy sources (wood, wind, hydro, geothermal, tidal, and solar)

Resources

3.10 d) conservation and resource renewal
3.11 d) renewable and nonrenewable energy resources
4.8 d) forests, soil, and land
6.9 a) management of renewable resources (water, air, soil, plant life, animal life)