


4th Grade Science

Aligned to Virginia SOL 4.2

Science SOL 5.2- Plants & Animals

Diagram: Plants and animals have different processes and structures that allow them to carry out photosynthesis and to photosynthesize and respire.

Plants are composed of parts that perform specialized functions. All processes require energy from the sun.



Plant Structure

- Root:** Anchor the plant into the soil and absorb water and nutrients.
- Stem:** Support the plant and transport water and nutrients.
- Leaf:** Perform photosynthesis and transpiration.
- Flower:** Reproduce the plant.
- Fruit:** Protect the seeds and help them grow.

Photosynthesis: Plants use energy from the sun to produce food. The process of photosynthesis takes place in the green leaves. The food is used by the plant to grow and to carry out other functions. The food is made of glucose and oxygen.

Respiration: Plants use energy from the food to carry out other functions. The process of respiration takes place in all parts of the plant. The food is used to produce energy.

Diagram: A plant is shown with arrows indicating the flow of water and nutrients from the roots to the leaves. The leaves are shown with arrows indicating the flow of food from the leaves to the rest of the plant.

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A Loxley



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