

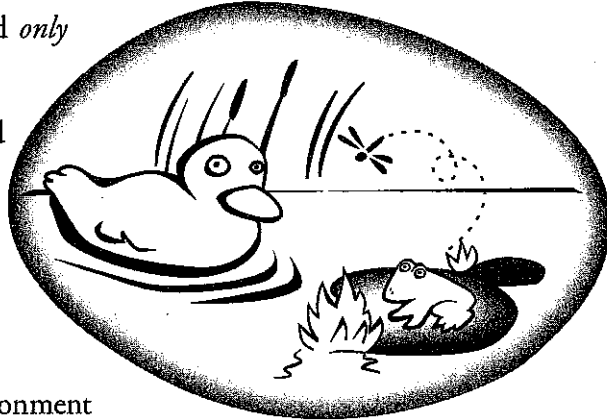
Functions of Living Things

The functions listed below are performed by living organisms. Which functions are performed by plants, animals, or both? Mark each example with a P, A, or B.

Put a **P** in front of the functions performed *only* by plants.

Put an **A** in front of the functions performed *only* by animals

Put a **B** in front of the functions performed by *both* plant and animals.



___ Photosynthesis (make their food)

___ Acquire and take in food from the environment

___ Respiration (release energy from food)

___ Storage of energy

___ Cell division

___ Transport of materials within the organism

___ Reproduction

___ Maintain a stable, internal environment

___ Growth

___ Response to stimuli

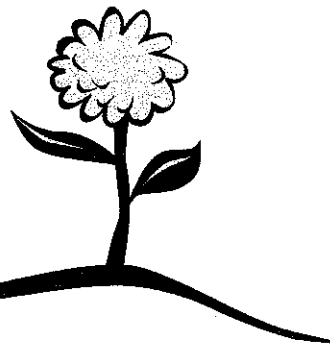
___ Elimination of waste products

___ Repair of damaged structures

Explain your thinking. What helped you decide whether a function is performed by a plant, animal, or both?

Is It a Plant?

Each of the things listed below can be found living and growing in its environment. Put an X next to the things that you consider to be plants.



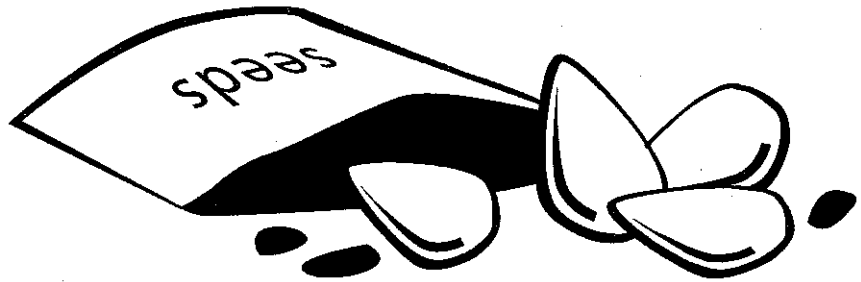
- | | | |
|----------------------------------|--------------------------------------|-----------------------------------|
| <input type="checkbox"/> fern | <input type="checkbox"/> grass | <input type="checkbox"/> moss |
| <input type="checkbox"/> vine | <input type="checkbox"/> grasshopper | <input type="checkbox"/> tomato |
| <input type="checkbox"/> mold | <input type="checkbox"/> flower | <input type="checkbox"/> tree |
| <input type="checkbox"/> onion | <input type="checkbox"/> weed | <input type="checkbox"/> bush |
| <input type="checkbox"/> cactus | <input type="checkbox"/> bacteria | <input type="checkbox"/> mushroom |
| <input type="checkbox"/> cabbage | <input type="checkbox"/> dandelion | <input type="checkbox"/> carrot |

Explain your thinking. Describe the "rule" or reasoning you used to decide if something is a plant.

Needs of Seeds

Seeds sprout and eventually grow into young plants called seedlings. Put an X next to the things you think a seed needs in order for it to sprout.

- water
- soil
- air
- food
- sunlight
- darkness
- warmth
- Earth's gravity
- fertilizer



Explain your thinking. Describe the "rule" or reasoning you used to decide what a seed needs in order to sprout.

Plants in the Dark and Light

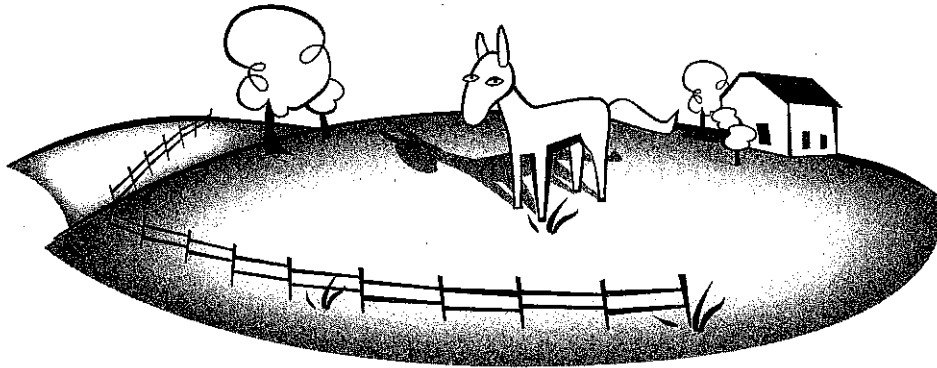
Four friends wondered how light affected the growth of plants. They decided to test their ideas using young bean plants. One set of plants was put in a dark closet for eight days. The other set of plants was put on a shelf near a sunny window for eight days. The friends then measured the height of the plants after eight days. This is what they predicted:



- Carl: "I think the plants in the dark closet will be the tallest."
Monique: "I think the plants by the sunny window will be the tallest."
Jasmine: "I think the plants will be about the same height."
Drew: "I think the plants in the closet will stop growing and die."

Which friend do you agree with and why? Explain your thinking.

Respiration



Put an X next to the organisms on the list that use the process of respiration.

___ human

___ grass

___ duck

___ frog eggs

___ mushroom

___ tomato plant

___ fish

___ chick inside an egg

___ human body cell

___ germinating seed

___ horse

___ apple tree

___ worm

___ single-celled pond organism

___ honeybee

___ bacteria

___ butterfly larvae inside a chrysalis

Explain your thinking. How did you decide whether an organism uses the process of respiration?
