

Date: _____

Name: _____

Program the Organism

This activity was created by Huda.

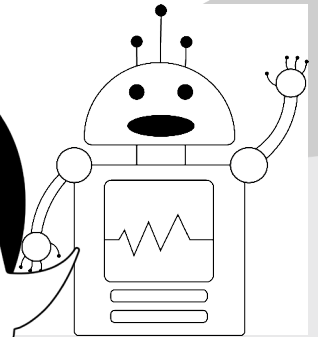
Photosynthesis is how plants make their own food, and cellular respiration is the way that animals and humans gain energy from molecules!

Below is a set of “code” in boxes that you must write in the correct order. The plant code and animal code are both mixed up, so make sure you sort them into the correct category.

Chlorophyll is a pigment present in the leaves of plants that allows carbon dioxide to be converted into oxygen.

Matter is recycled between ecosystems. Plants produce something that animals need, and animals produce something that plants need.

This is similar to a coding method done on a device called drag and drop programming, where someone selects text and moves it to a different area.



Control	Events	Motion
Repeat forever.	When I feel there is carbon dioxide in the air.	Breathe in.
Repeat forever.	When I receive oxygen.	Open leaf pores.
If chlorophyll is present, convert carbon dioxide into oxygen.	When I feel there is water in the soil.	Absorb water with roots.
If there is sugar present, then break it down into water and carbon dioxide. Else, eat food.		Release oxygen.
If I receive sunlight for energy, then convert carbon dioxide into glucose.		Breathe in.
		Use the energy.
		Breathe out to release carbon dioxide.

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Using the Control, Events and Motion from the previous page, write the code for the plant and animal boxes below. Start with the control. You can shorten the words in the code if you need to!

Plant code:

Animal code: