_____'s

Garden

JOURNAL

All About Cycles

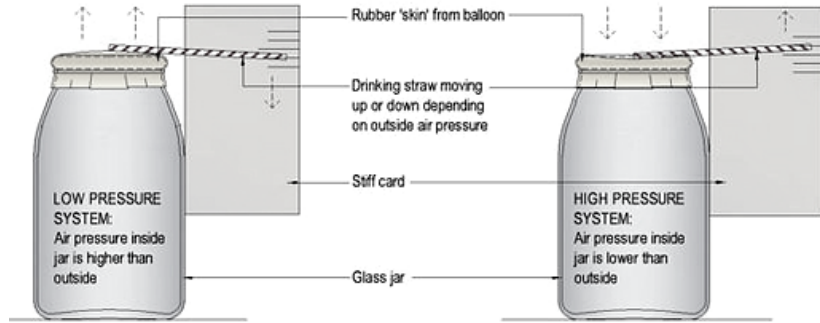EARTH GENIUS

LESSON 1: WEATHER SCIENCE

Barometer
-measures air pressure; high pressure can indicate a clear/sunny day; low pressure can indicate a cloudy/raindy day

Rubber 'skin' from balloon

Drinking straw moving up or down depending on outside air pressure

Stiff card

LOW PRESSURE SYSTEM: Air pressure inside jar is higher than outside

HIGH PRESSURE SYSTEM: Air pressure inside jar is lower than outside

Glass jar

Rain Gauge
- Measures the inches of rainfall.
To make a rain gauge: Cut off the top of a bottle to use as a funnel. Use a ruler to mark measurements on the side of your bottle.
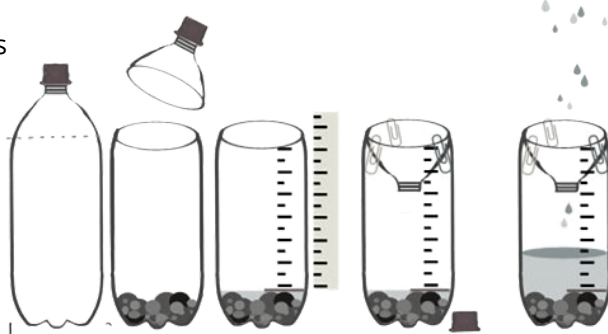
Weather Vane
- Measures wind direction.
To make a weather vane: Tape a paper cup and plate together to use as a base. Make a pointer by cutting a slit at the end of a drinking straw and attaching a square on one end and a triangle on the other end. Attach the base to the pointer using a pencil and a paperclip.

Paper

Drinking Straw

Paper

Pencil

Cup

Paper Plate

WEST NORTH SOUTH EAST

1
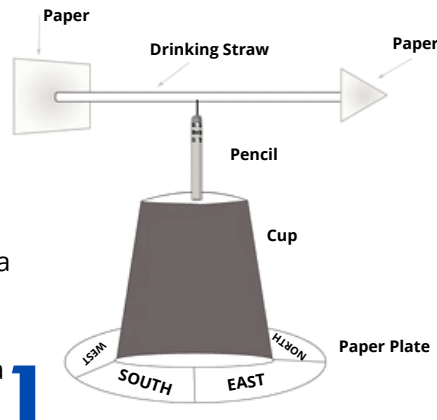
Habitat Crossword Puzzle
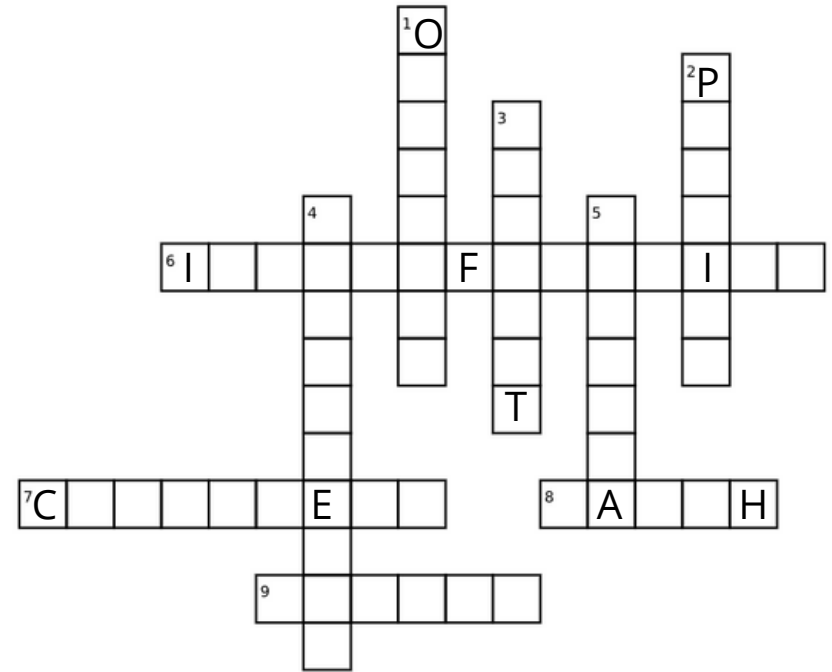
Down:
1. an individual animal, plant, or single-celled life form
2. different types of living organisms
3. a place where the needs of plants and animals are met
4. a plant or animal that is going extinct or dissappearing from the earth
5. a habitat with grasses, trees, shrubs, and is home to large herds of animals

Across:
6. to classify something or learn about it
7. a habitat found in the sea in the tropics and subtropics
8. an area with low level of water and grassy plants
9. a habitat that is hot and dry during the day and cooler at night

6

LESSON #2: FOOD CHAIN FRENZY

Make your own food chain including: **Producer, Primary Consumer, Secondary Consumer, Final Consumer & Decomposer**
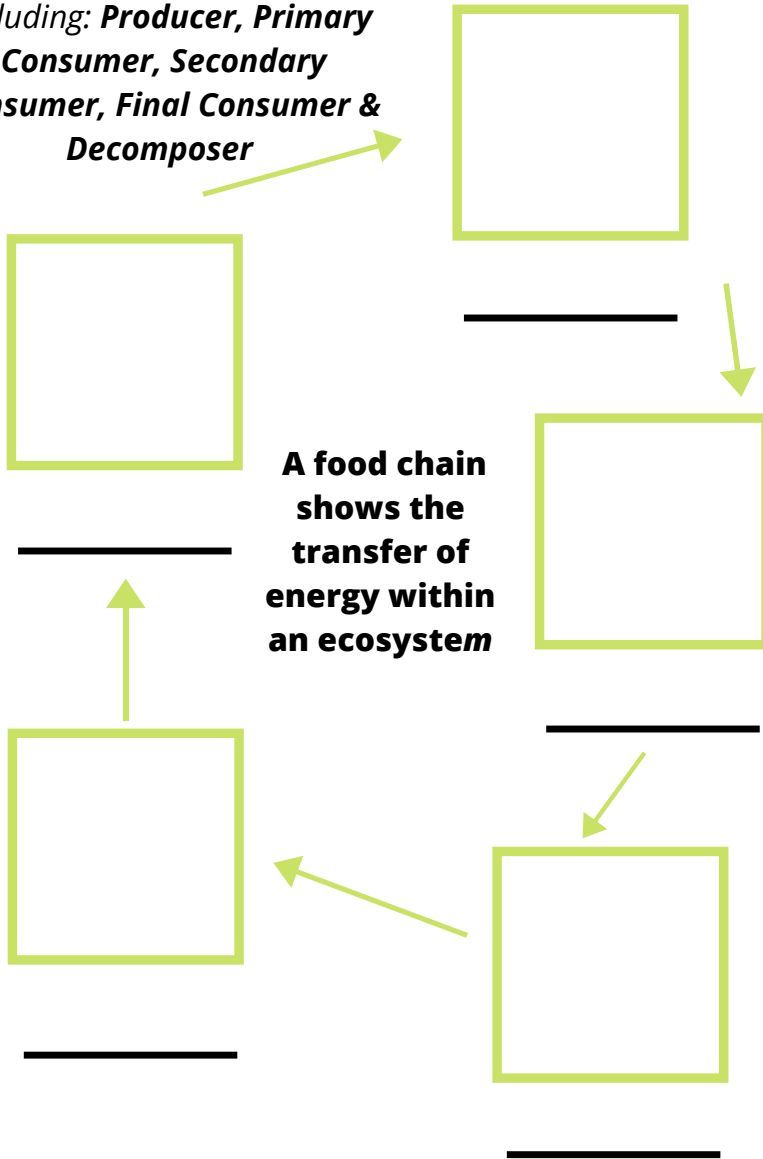
A food chain shows the transfer of energy within an ecosyste*m*

3

Help label each organism on the food web!
Write a (P) next to it if it is a Producer, (H) if it is an Herbivore (O) if it is a Omnivore, or (C) if it's a carnivore.
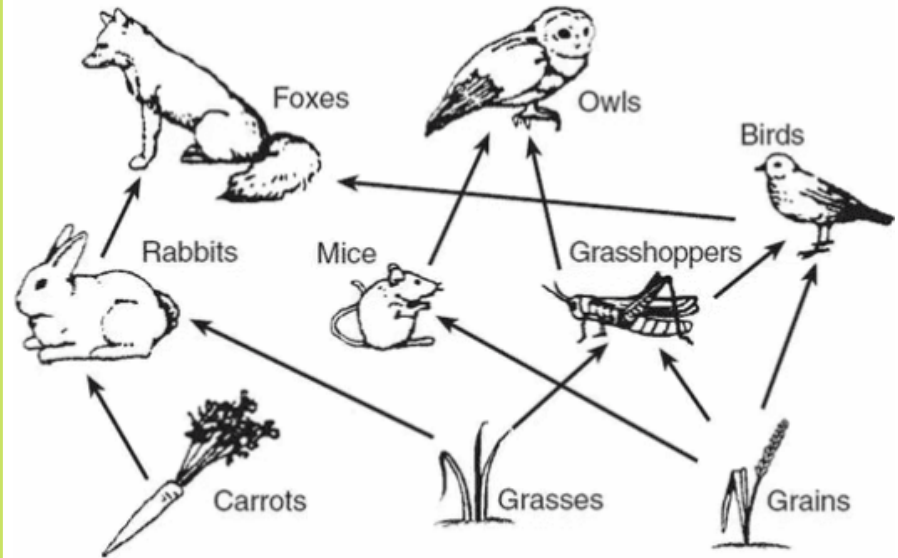
1. List the producers:

_____

2. List the primary consumers:

_____

3. List the secondary consumers:

_____

4. List one example of a decomposer that could be in this ecosystem:

_____

5. List one food chain that is part of this food web:

_____

4

Borrowed from: Just Teach Middle

LESSON #3: SPECIES SURVEY

Go on a walk and observe and draw the habitats around you:

1. What evidence did you find of other animals?

_____

2. Choose one animal you found. What was unique about that microhabitat? How does that habitat provide shelter, food, water for its inhabitants?

_____

3. Are the plants that you observed getting what they need in their habitat? How can you tell?

_____

5

WEATHER LOG

Date	Temperature (F°)	Rain Fall (inches)	Wind Direction (north/east west/south)	Air Pressure (Low, medium, high)

2