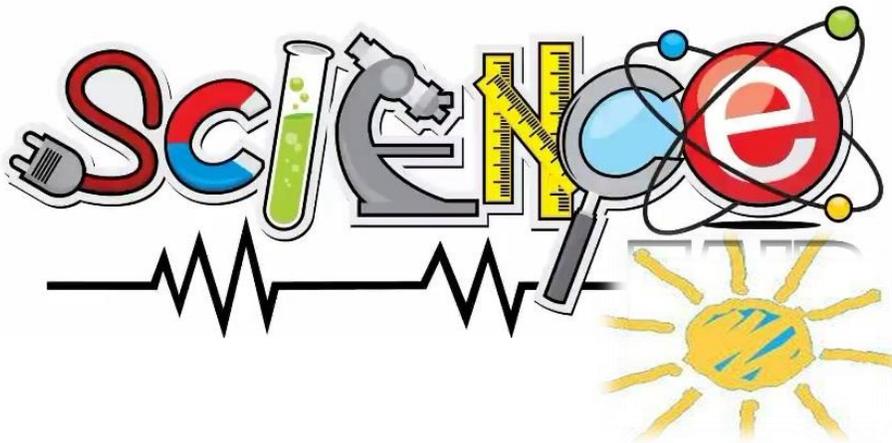




Name _____

5th Grade Science Remote Learning Packet

Week 12



Dear Educator,

My signature is proof that I have reviewed my scholar's work and supported him to the best of my ability to complete all assignments.

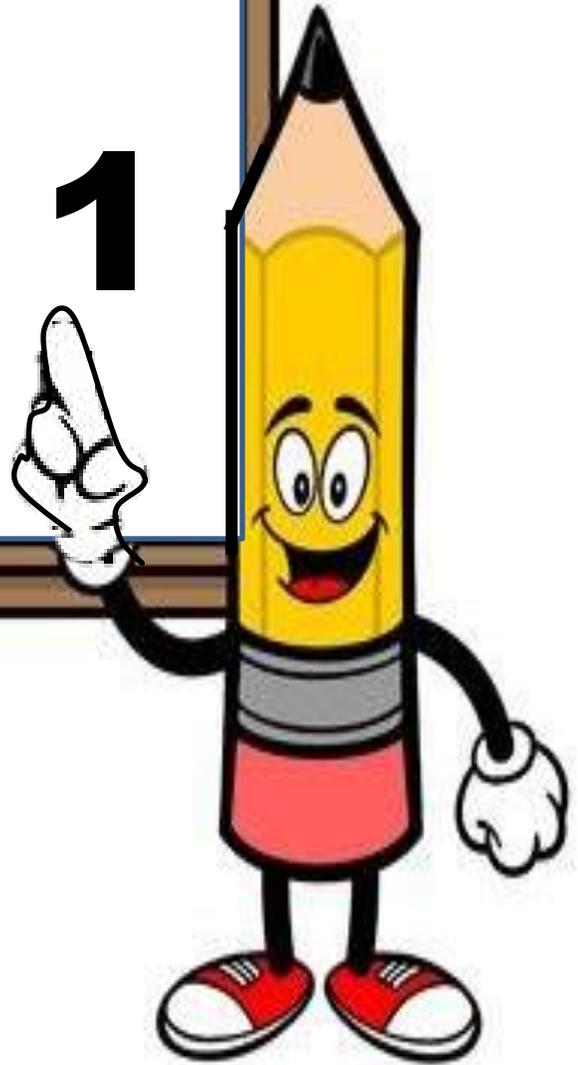
(Parent Signature)

(Date)

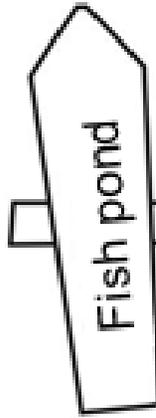
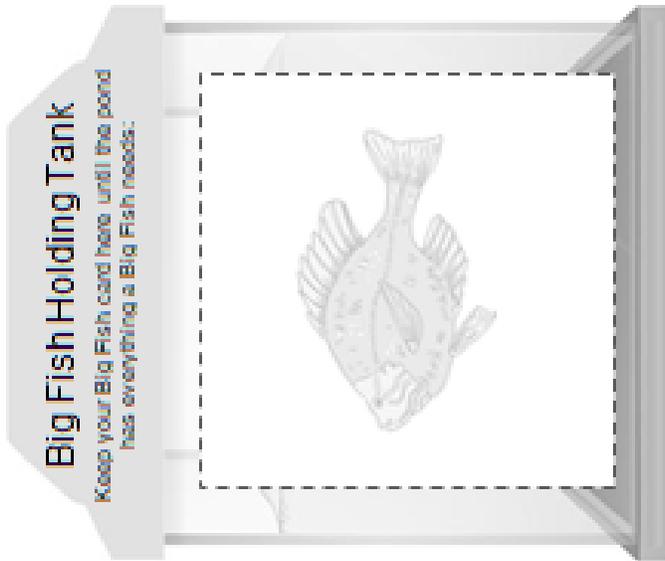
Parents please note that all academic are also available on our website at www.brighterchoice.org under the heading "Remote Learning." All academic packet assignments are mandatory and must be completed by all scholars.



Day # 1



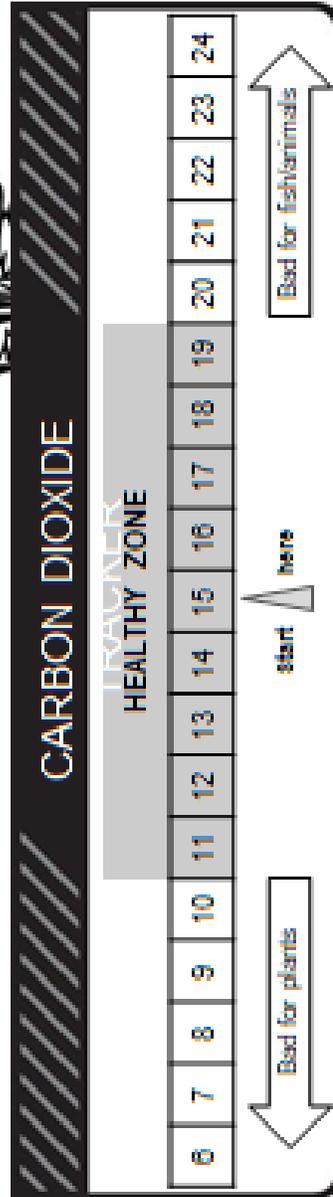
FISH-O-METER



BIG FISH'S
At least **three**

PRODUCER
As many as
you want

DECOMPOSE
At least **two**



MYSTERY science
Web of Life | Mystery 5

BIG FISH

Ecosystem Cards
Page 1



Big Fish

+6
carbon dioxide points

A Big Fish needs:

- at least 3 Big Fish Foods and 2 Decomposers
- a healthy carbon dioxide level

Underwater Plants (Producers)



-3
carbon dioxide points

These plants take all their carbon dioxide from the water.

Underwater Plants (Producers)



-3
carbon dioxide points

These plants take all their carbon dioxide from the water.



Phytoplankton (Producer)

-2
carbon dioxide points

These microscopic plants take carbon dioxide from the water.



Phytoplankton (Producer)

-2
carbon dioxide points

These microscopic plants take carbon dioxide from the water.



Phytoplankton (Producer)

-2
carbon dioxide points

These microscopic plants take carbon dioxide from the water.



Underwater Plants (Producers)



-3
carbon dioxide points

These plants take all their carbon dioxide from the water.



Fungi (Decomposers)

+3
carbon dioxide points

Fungi break down fish waste to make carbon dioxide and nutrients.



Fungi (Decomposers)

+3
carbon dioxide points

Fungi break down fish waste to make carbon dioxide and nutrients.



Bacteria (Decomposers)

+3
carbon dioxide points

Bacteria break down fish waste to make carbon dioxide and nutrients.



Bacteria (Decomposers)

+3
carbon dioxide points

Bacteria break down fish waste to make carbon dioxide and nutrients.

BIG
FISH
Ecosystem
Cards
Page 2



Algae (Producers)

-3
carbon
dioxide
points

Algae take all their carbon dioxide from the water.

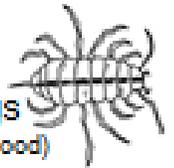


Algae (Producers)

-3
carbon
dioxide
points

Algae take all their carbon dioxide from the water.

Aquatic Sowbugs (Big Fish Food)



+
carbon
dioxide
points

Your pond needs plants, algae, or phytoplankton for these aquatic sowbugs to eat.

Snails (Big Fish Food)



+2
carbon
dioxide
points

Your pond needs plants, algae, or phytoplankton for these snails to eat.

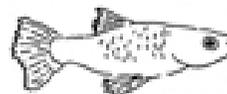
Tadpoles (Big Fish Food)



+2
carbon
dioxide
points

Your pond needs plants, algae, or phytoplankton for these tadpoles to eat.

Guppies (Big Fish Food)



+2
carbon
dioxide
points

Your pond needs plants, algae, or phytoplankton for these guppies to eat.

Freshwater Shrimp (Big Fish Food)



+2
carbon
dioxide
points

Your pond needs plants, algae, or phytoplankton for these shrimp to eat.

Duckweed (Producer)



-1
carbon
dioxide
points

This floating plant takes carbon from the air as well as the water.

Duckweed (Producer)



-1
carbon
dioxide
points

This floating plant takes carbon from the air as well as the water.

Duckweed (Producer)



-1
carbon
dioxide
points

This floating plant takes carbon from the air as well as the water.

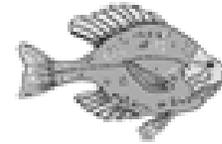
Sludge Worms (Big Fish Food)



+1
carbon
dioxide
points

Your pond needs fish waste for these worms to eat.

Check the Pond!



To make sure the pond is ready for a big fish, answer the questions below.

- 1) Are there at least three foods for the big fish? Yes No
- 2) Are there at least two decomposers to clean up the waste? Yes No
- 3) Use this chart and the carbon dioxide double-checker at the bottom of this page to make sure the pond is healthy:

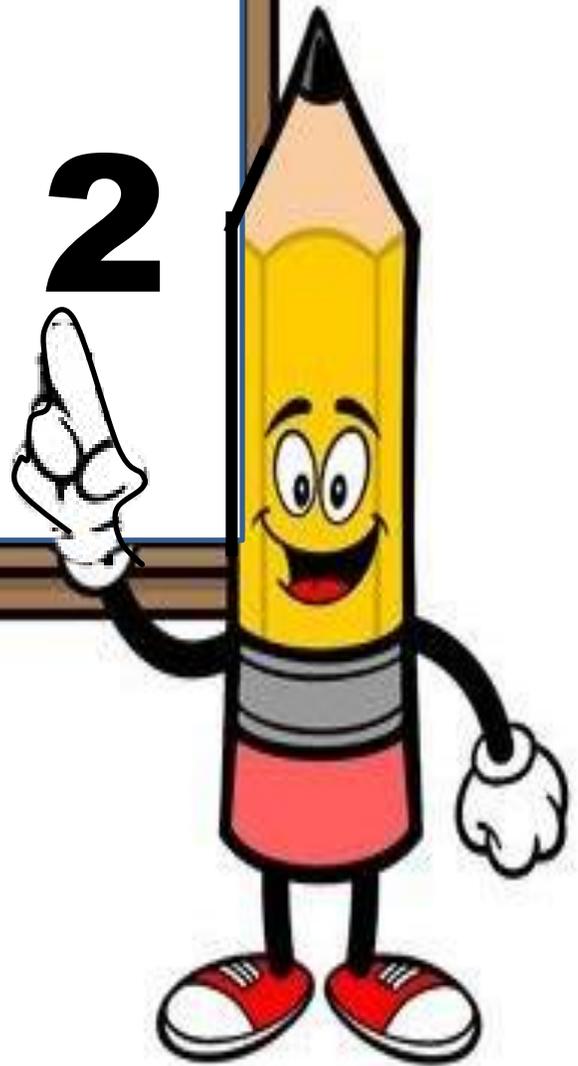
	Add up the carbon dioxide number on the cards write them in this column.	Move the pointer to track the carbon dioxide points.
Big Fish Food		Start at 15. Move the pointer to add these points.
Producers		Move the pointer to subtract these points.
Decomposers		Move the pointer to add these points.
Big Fish	6 points	Move the pointer to add these points.
	What's the final carbon dioxide level? (add the above numbers) Is that a healthy level? Yes No	

Carbon Dioxide Double-Checker:





Day # 2



Name: _____ Week 12 Day 2 Date: _____

BCCS-B

Standford MIT

End of Mystery Assessment

1. Producers...

- a. use carbon dioxide and release oxygen.
- b. include plants, algae, and phytoplankton.
- c. make their own food, rather than eating other living things.
- d. all of the above

2. Decomposers...

- a. are all microscopic (can only be seen under a microscope).
- b. create nutrients out of the air that help plants grow.
- c. break down waste and dead material into nutrients for plants.
- d. release oxygen for animals to breathe.

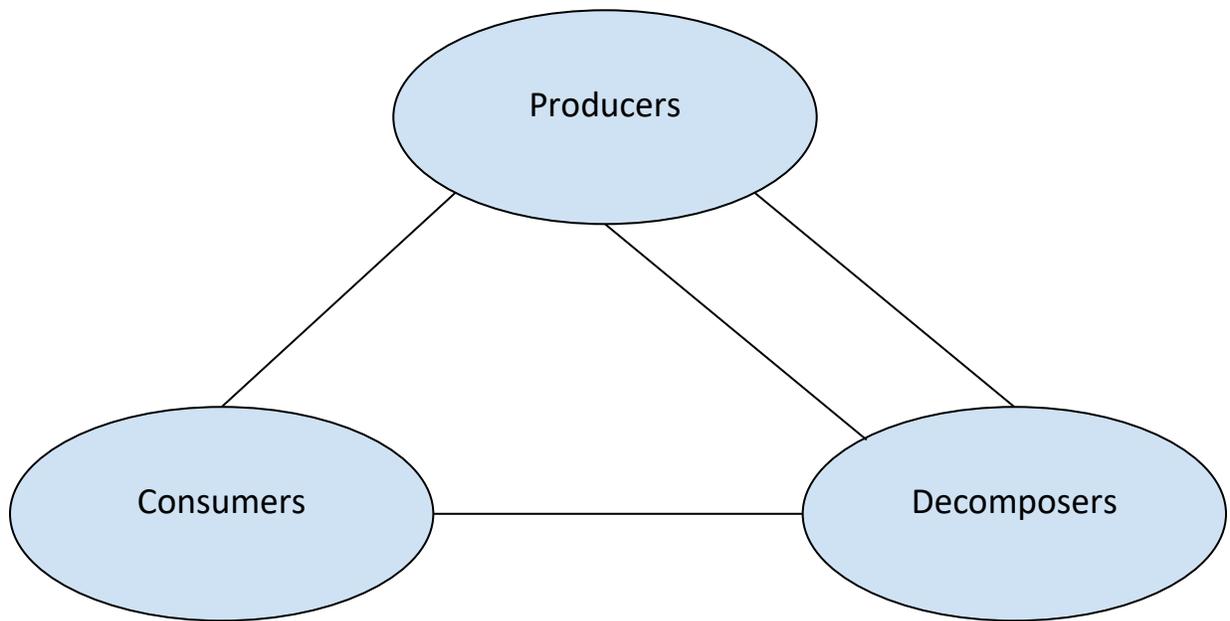
3. _____ take in carbon dioxide, but _____ release carbon dioxide.

- a. Decomposers and plants..... consumers
- b. Plants..... decomposers and consumers
- c. Decomposers and consumers..... plants
- d. Consumers..... decomposers and plants

4. TRUE or FALSE (circle one) An ecosystem includes all the producers, consumers, and decomposers in an environment.

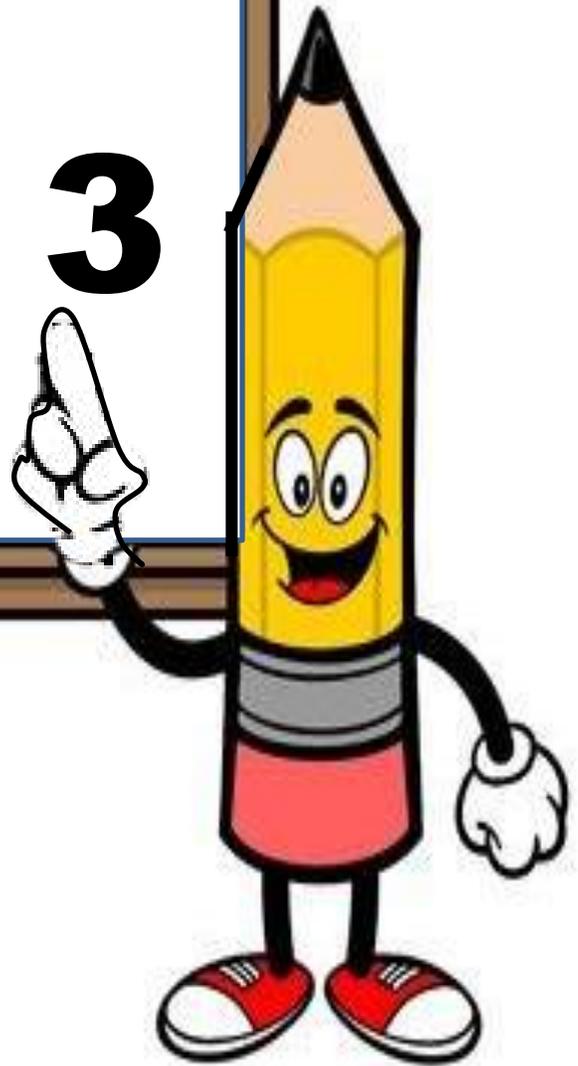
5. Draw arrows on the ends of the connecting lines to show the directions of the movement of *matter* through an ecosystem. Then, **label each line** using the answer choices below.

A) get eaten by	B) die/excrete waste	C) release nutrients for	D) lose leaves/die
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Day # 3



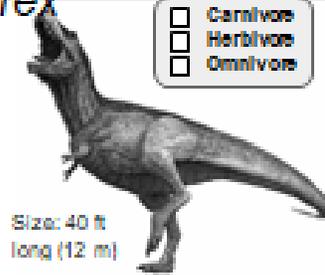
DINO DIE-OFF

a food web model

Tyrannosaurus

TEA

- Carnivore
- Herbivore
- Omnivore



Size: 40 ft
long (12 m)

I get my energy by eating other dinosaurs. I like to munch on *Triceratops* or duckbill dinosaurs—but I'll eat smaller ones, too. I'm big, so I need a lot of food to keep going.

Didelphodon

Size: 14 in
long (35 cm)

- Carnivore
- Herbivore
- Omnivore

I'm a mammal! I get my energy by eating crickets, beetles, and worms. I have jaws that will crunch through turtle shell—or through the bones of dead animals. I also eat berries, if they're available.



Duckbill dinosaur

(*Corythosaurus*)
Size: 32 ft
long (10 m)

- Carnivore
- Herbivore
- Omnivore



I get my energy by eating twigs, leaves, and seeds from living plants. I always keep an eye out for *Tyrannosaurus*, who thinks I make a good snack.

Earthworm

Size: up to
8 in (20 cm)

- Carnivore
- Herbivore
- Omnivore

I get my energy from rotting wood, dead leaves, and rotting animals. I burrow underground.



Dracorex hogwartsis

- Carnivore
- Herbivore
- Omnivore



Size: 13 ft
long (4 m)

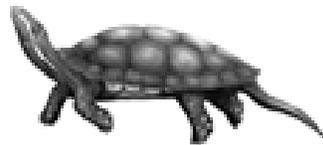
I get my energy from leaves, seeds, and fruits of living plants. My name means "dragon king of Hogwarts." I got my name when the scientists who found my skull in 2016 donated me to a museum.

Prehistoric turtle (Compsemys)

Size: 12 in
(30 cm)

- Carnivore
- Herbivore
- Omnivore

I get my energy by eating worms and crickets. Like modern turtles, I can hibernate underwater when the weather is cold.



Dryptosaurus

Size: 21 ft
long (6.4 m)

- Carnivore
- Herbivore
- Omnivore



I get my energy from eating other dinosaurs. I hunt plant eaters that are my size or a little bit bigger.

Triceratops

Size: 30 ft long (9 m)

- Carnivore
- Herbivore
- Omnivore

I get my energy by munching on living plants. And I'm big, so I need a lot of food to keep going. That means a lot of plants. Good thing that palm trees grow so well around here.



Sinornithoides

Size: 3 ft long (1 m)

- Carnivore
- Herbivore
- Omnivore



I've got feathers. If you saw me, you'd probably say I was a bird. I get my energy by eating worms and crickets and other small animals.

MYSTERY science

Prehistoric cricket

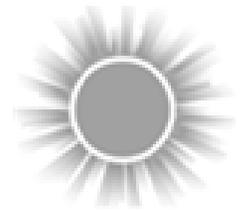
Size: up to 4 in (10 cm)

- Carnivore
- Herbivore
- Omnivore

I get my energy by eating seeds, berries, and leaves—either fresh off the living plant or dead on the ground. And I'm always hungry! Every day, I eat my own body weight in food.



Sunlight

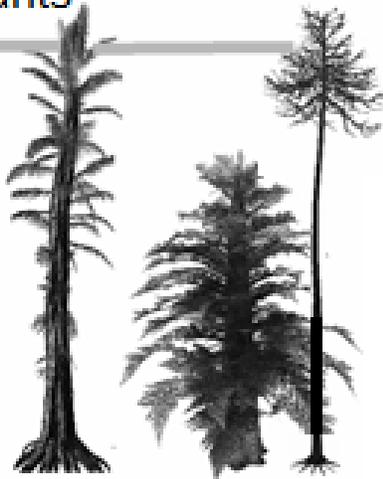


I'm the sun. My light and heat are both forms of energy. Every living thing—from palm trees to *Tyrannosaurus*—needs energy to move, to grow, to stay warm, and to heal when they are injured.

MYSTERY science

Living green plants

We're the plants of the Cretaceous period: leafy palm trees, evergreen trees, ferns, flowering plants, plants that grow berries, and more! All of us plants provide abundant food and energy for herbivores.



Dead plants & dead animals

Earthworms and crickets chow down on us dead plants—our fallen leaves and rotting wood make great food.

Didelphodon and other animals that scavenge for food munch on us dead animals. Our rotting meat and bones make great snacks.

All dead plants and animals store food energy that some animals can use later.



Name: _____ Week 12 Day 3 Date: _____

BCCS-B

Stanford MIT

Dinosaur Food Web

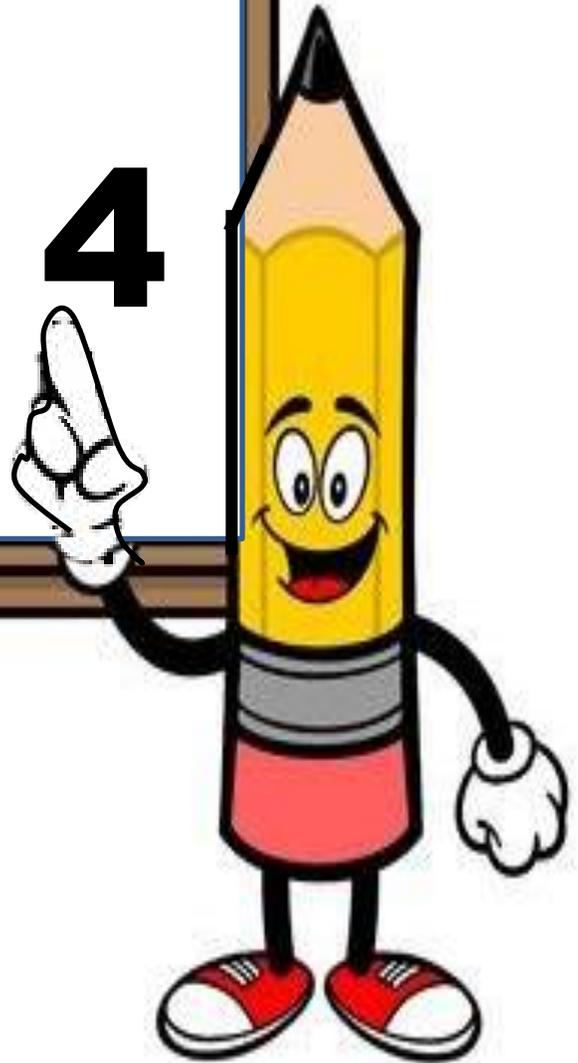
1. What animals do you think *Tyrannosaurus rex* would eat? Why do you think that?

2. List the animals you think can survive when the sunlight is blocked.

3. Why did some animals go extinct while other animals survived? Construct an explanation using evidence from your food web.



Day # 4



Name: _____ Week 12 Day 4 Date: _____

BCCS-B

Stanford MIT

End of Mystery Assessment

1. Which correctly shows the flow of energy through a food web?

- a. Producers → decomposers → consumers
- b. Producers → consumers → decomposers
- c. Decomposers → consumers → producers

2. Choose the statement that most accurately describes why the dinosaurs died.

- a. The dinosaurs died from earthquakes set off by the asteroid impact.
- b. The dinosaurs burned up instantly from a giant fireball caused by the asteroid.
- c. Most dinosaurs starved due to the collapse of their food webs.
- d. Most dinosaurs suffocated because they couldn't breathe air full of asteroid dust.
- e. The dinosaurs froze to death when the sun was blocked out.

3. Which organisms were most likely to survive the Cretaceous extinction? Circle as many choices as you want.

Omnivores

Herbivores

Small animals

Large animals

Carnivores

Decomposers

Plants

For each of the answers you circled, explain why you chose it.
