

Name _____

5th Grade Science Remote Learning Packet

Week 10



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.

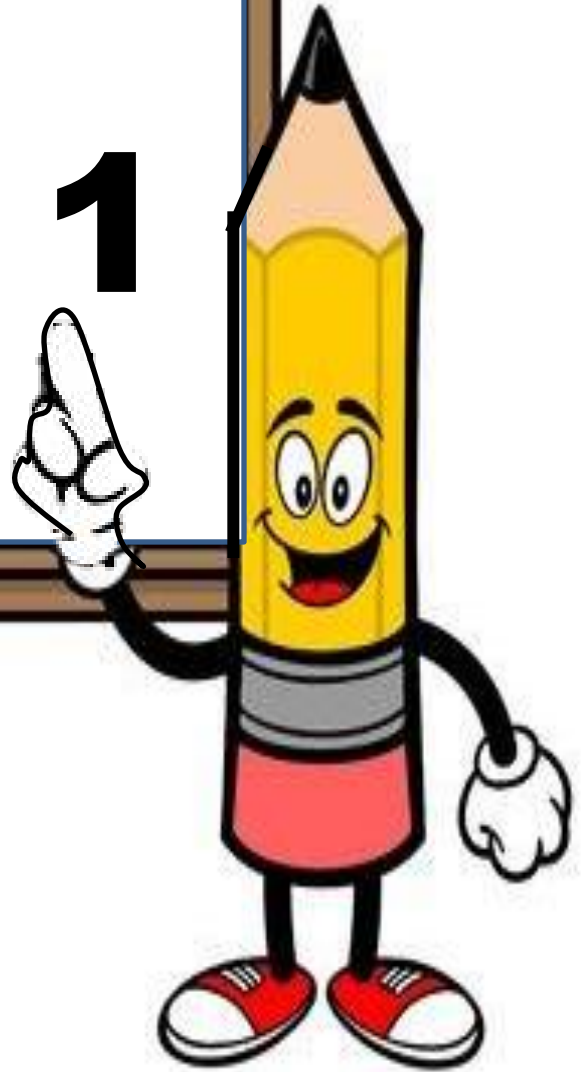
(Parent Signature)

(Date)

Parents please note that all academic packets 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



Name: _____ Week 10 Day 1 Date: _____

BCCS-B

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Guided Notes: Why do you have to clean a fish tank but not a pond?

The Question: Answer the question in a complete sentence.

Why do you have to clean a fish tank but not a pond? _____

Day 1:

Vocabulary: Fill in the blanks with the colored word from the PowerPoint presentation.

1. **Pond Muck:** organic _____ such as leaves, branches, animal waste, and dead vegetation and animals _____ at the bottom of a pond
2. **Producers:** an _____, either a green plant or bacterium, that _____, or make _____ for _____ and is part of the _____ of a food chain
3. **Phytoplankton:** _____ that drifts in the water
4. **Algae:** _____ that have no leaves or stems and that grow in or near water
5. **Ecosystem:** _____ that exists in a _____ environment
6. **Consumer:** an _____ that _____ on plants or animals for _____—herbivores, carnivores, omnivores, detritivores
7. **Decomposer:** a living thing, such as bacterium, fungus, or insects, that _____ on and breaks down plant and animal _____ into simpler parts or substances

Video: During the video, take notes. When asked to discuss, first think about your response and then write it down. When asked to discuss, either raise a silent scholar hand to respond whole-group or discuss with your partner, taking turns.

Exploration 1: Notes- _____

Exploration 2: Discuss-What do you think is wrong with the fish? _____

Exploration 3: Discuss-What would you do to try to help the fish? _____

Exploration 4: Notes- _____

Exploration 5: Discuss-How can fish survive in a pond if waste doesn't get filtered out of the water?

Exploration 6: Notes- _____

Exploration 7: Discuss-Can you think of anything that could help LOWER the amount of carbon dioxide in a pond? _____

Exploration 9: Draw-Sketch a model of the interactions in a pond ecosystem. Plants, decomposers, and pond animals have been provided for you. Draw arrows and label to show all the things that connect them.

Exploration 10: Check-Did you include waste, nutrients, carbon dioxide, and oxygen arrows in your model? If not, add arrows in for those too.

plants
(producers)

animals
(consumers)

decomposers

Name: _____ Week 10 Day 1 Date: _____

BCCS-B

MIT

Stanford

Exploration 11: Notes- _____

**Go back in your model if you forgot to include something—this will show up on your assessment Wednesday. **

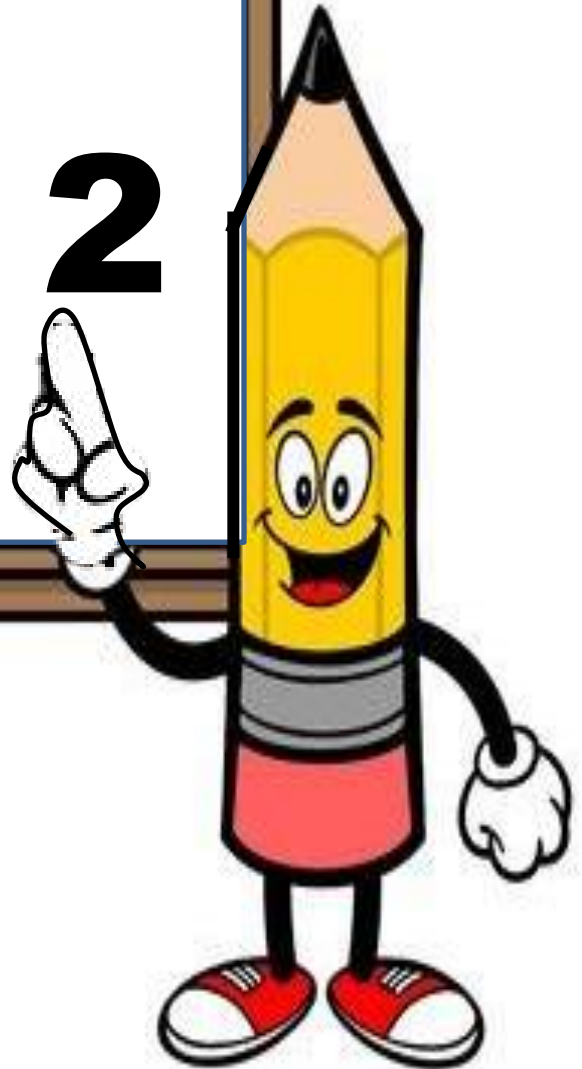
Activity: *Ensure that you are following all directions. Unless you are asked to discuss, there should be no talking. Your job is following directions and observing. You will have a chance to discuss later.*

EXIT TICKET: What is a producer? _____

How does it (a producer) help a pond's ecosystem? _____



Day # 2



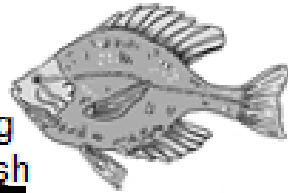
BIG FISH

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)

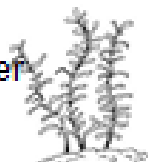


-2

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)

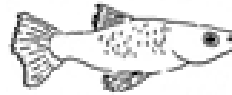


+2

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.