

SALTWATER & FRESHWATER : AQUATIC BIOMES



5 WEEKS OF HANDS-ON, ENGAGING LESSONS — NO PREP REQUIRED!



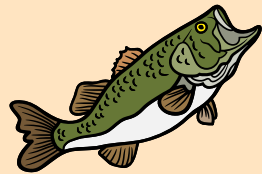
For students who:

- are emerging or non-readers
- take alternate assessments
- are in special education
- short-attention span
- lack pre-requisite skills
- benefit from the use of pictures for support
- middle/high school

COMPARES SALTWATER AND FRESHWATER ECOSYSTEMS:



Compare the bodies of water



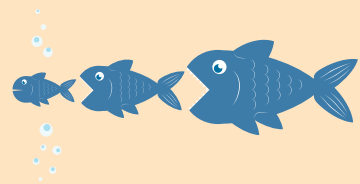
Compare the fish that live in each



Compare the animals that live in/around each



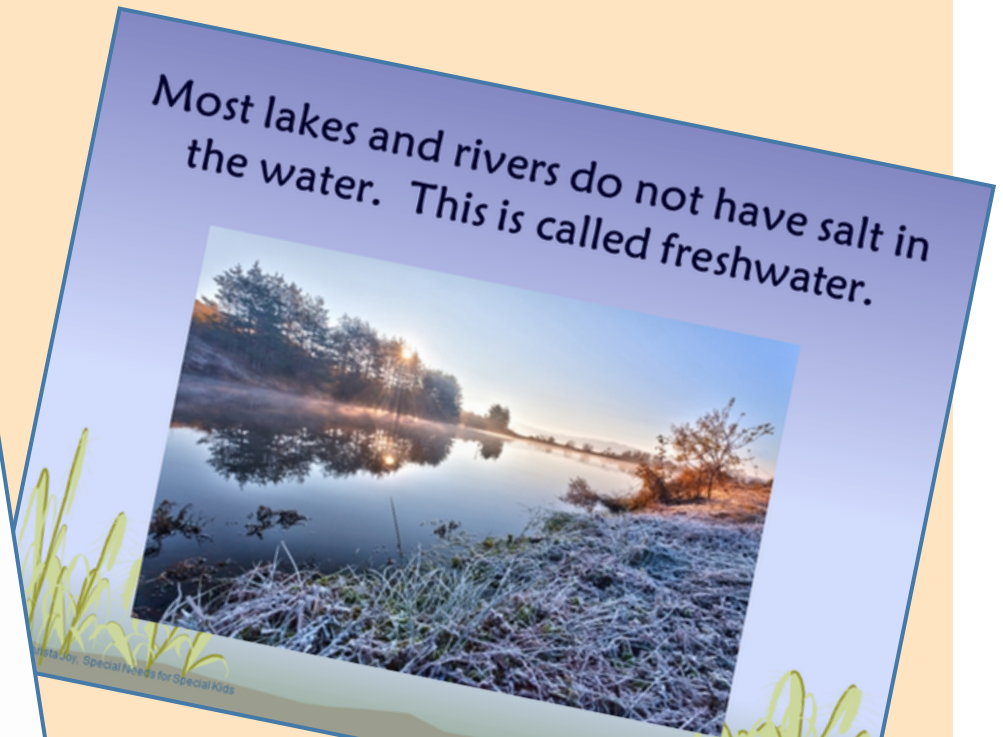
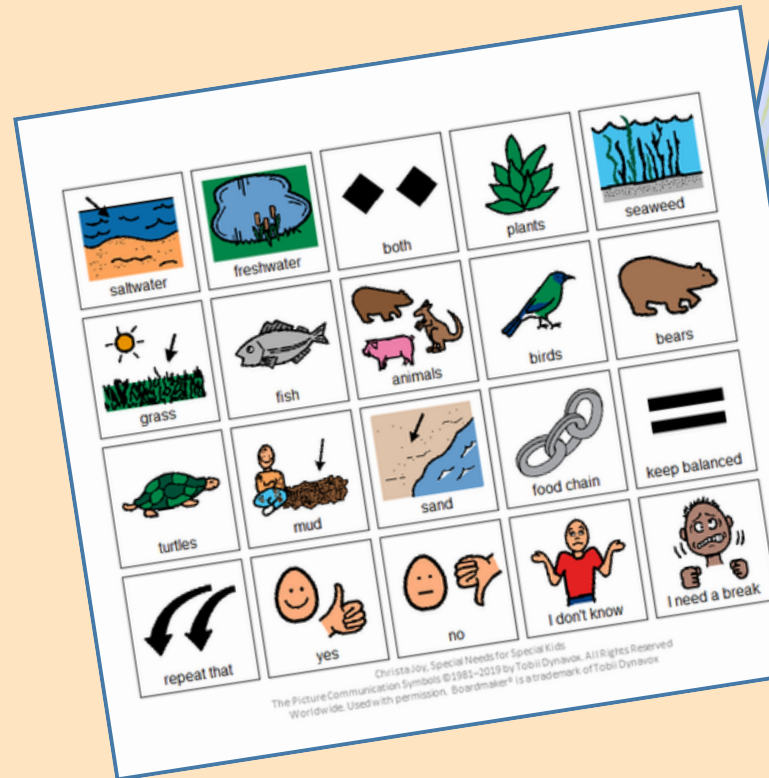
Compare the plants that live in/around each



Compare food chains

WHAT'S INSIDE

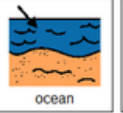
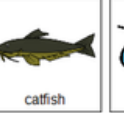
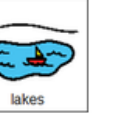
- PowerPoints
- Vocabulary
- Circle maps
- Sorting activities
- Hands-on activities
- Assessments



A lives in  and .

A  lives in the .

A  lives in and .

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LESSON PLANS

Day 3		
Activity	Notes	Materials
Read the PowerPoint: Water, Water Everywhere (10 minutes)	- Read through the story, asking lots of questions - Continue to make connections between the PowerPoint and the vocabulary board	- PowerPoint - Vocabulary board
Scavenger Hunt with vocabulary board (10 minutes)	- Paste the symbols around the room - Students walk around with their vocabulary board, looking for matching symbols - Place a sticky note on their board covering the symbols as they find them	- Vocabulary board cut apart - tape - Vocabulary board
Painting activity review (5 minutes)	Review the painting completed yesterday	Completed activity from yesterday
Sorting activity (10 minutes)	- Do the sorting activity with water and the character symbols, or both! - Choose to use either symbols, or both! - Use color coding if needed for support - Make connections to the book as necessary	
Sharing (10 minutes)	Each student shares their finished collage with the group using the communication method of their choice	- Completed activity - Communication devices

Day 7		
Activity	Notes	Materials
Read the PowerPoint: Let's go Fishing (10 minutes)	- Read through the story, asking lots of questions - Continue to make connections between PowerPoint and the vocabulary board	- PowerPoint - Vocabulary board
I Spy Game with vocabulary board (10 minutes)	- Hold up one of the pictures from the board so only you can see it. - Describe it with as much detail as you can - Ask students to put their marker/counter on the picture they think you are holding - Turn it around and ask students to raise their hand if they got it correct	- Vocabulary board cut apart - Vocabulary board
Circle map review (5 minutes)	Review the circle map completed yesterday	Circle map completed yesterday
Fish collage (10 minutes)	- Students choose if they want to do a freshwater or saltwater collage. - Print background on cardstock - Students cut out the fish they want to add - Make connections to the book as necessary	- Water background - Fish pictures - Scissors - Glue
Sharing (10 minutes)	Each student shares their finished collage with the group using the communication method of their choice	- Completed activity - Communication devices

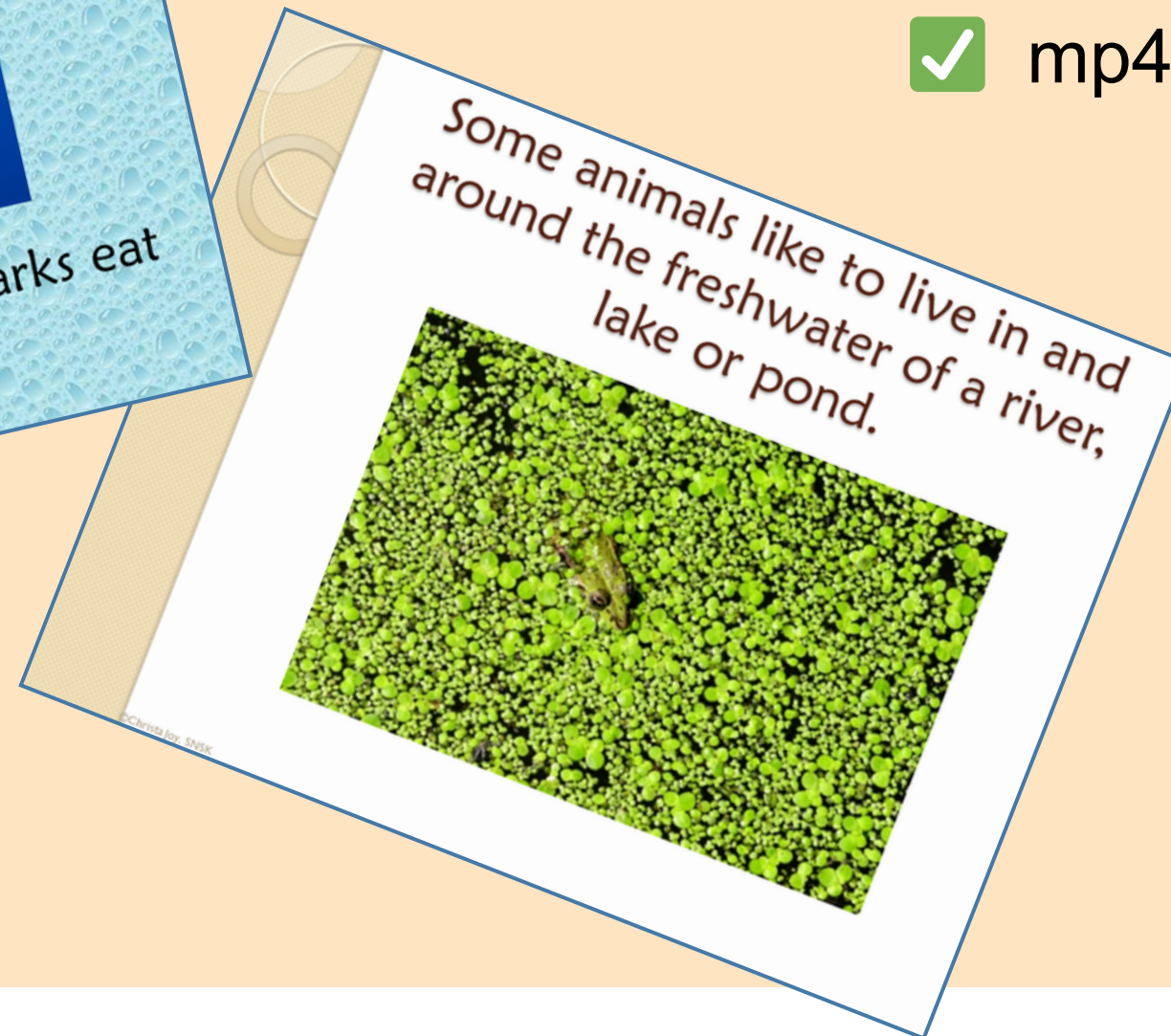
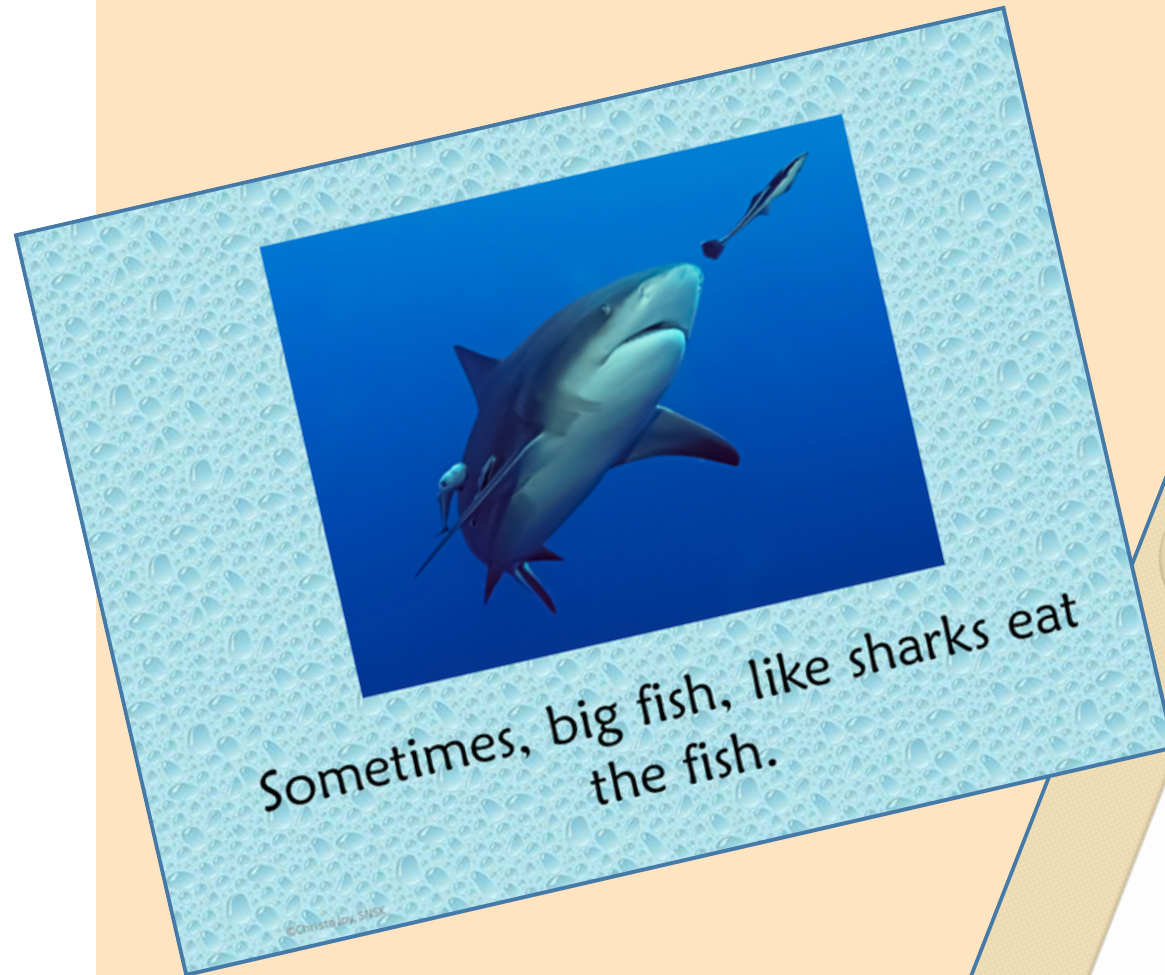
The **lesson plans** contain:

- ✓ Overall tips for teaching students with significant needs
- ✓ A quick look at what you will do each day
- ✓ Detailed instructions on how that day's lesson should run

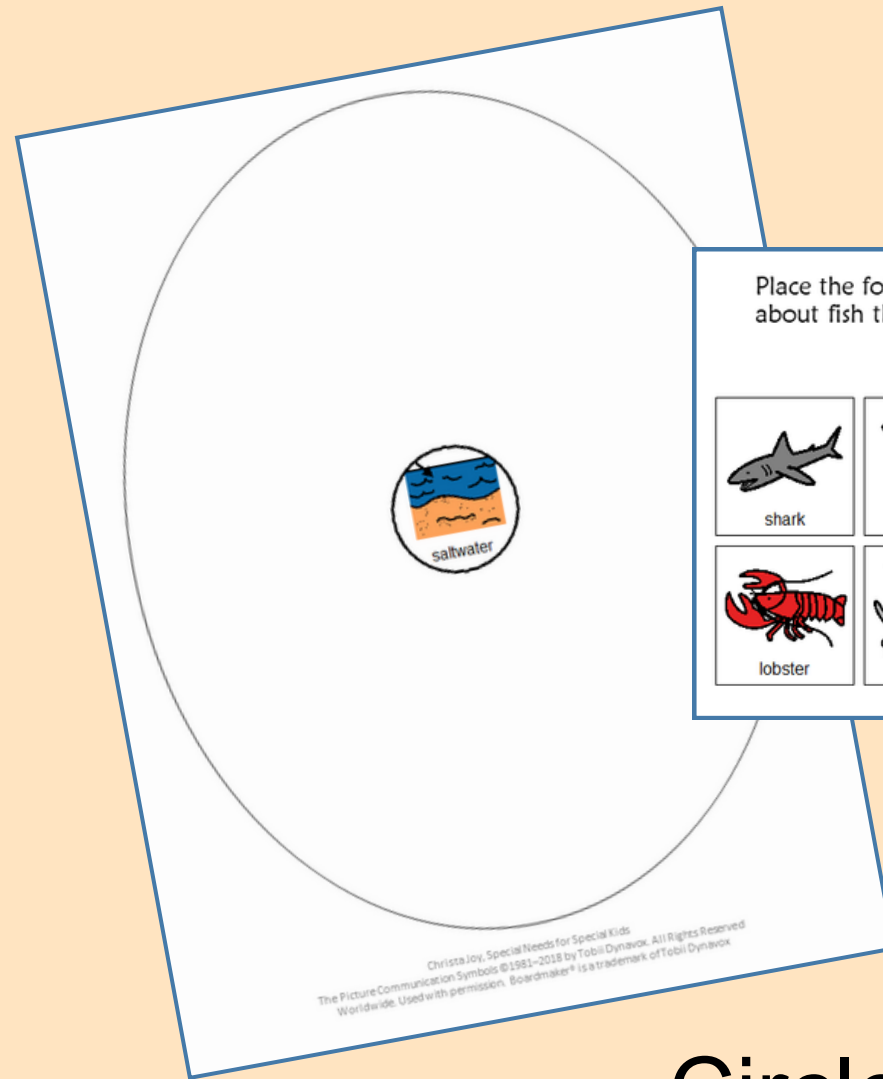
5 POWERPOINTS

5 PowerPoints using photos and simple text.

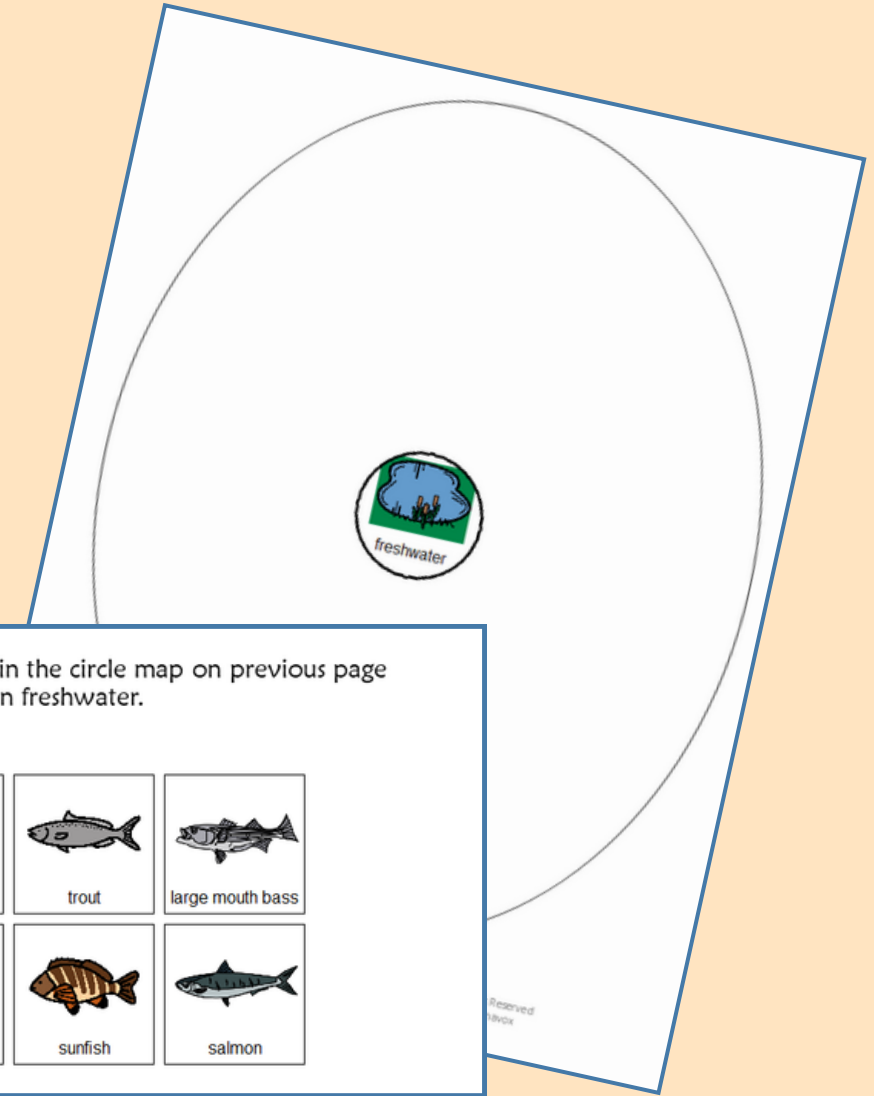
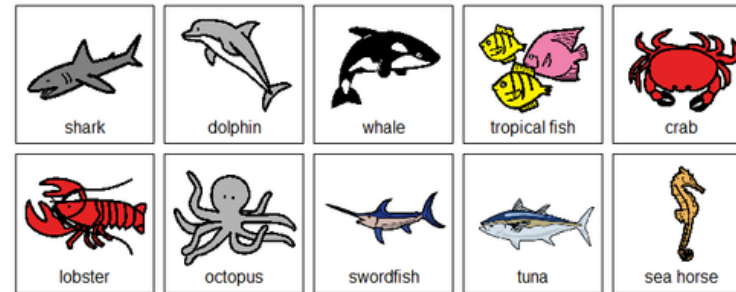
- ✓ PowerPoint
- ✓ mp4 video file



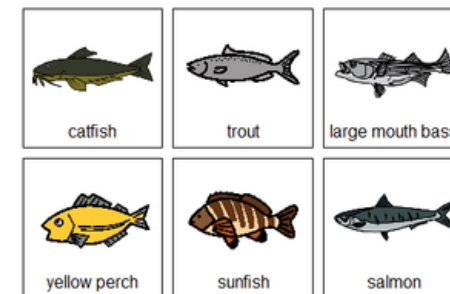
CIRCLE MAPS



Place the following in the circle map on previous page about fish that live in saltwater.



Place the following in the circle map on previous page about fish that live in freshwater.



Circle maps



Errorless version



Wrong answers mixed in

SORTING

Sorting activities

- ✓ photos and symbols
- ✓ color and black & white

Sort the following pictures into those that are saltwater and those that are freshwater. If you are not sure, place it on the center line.

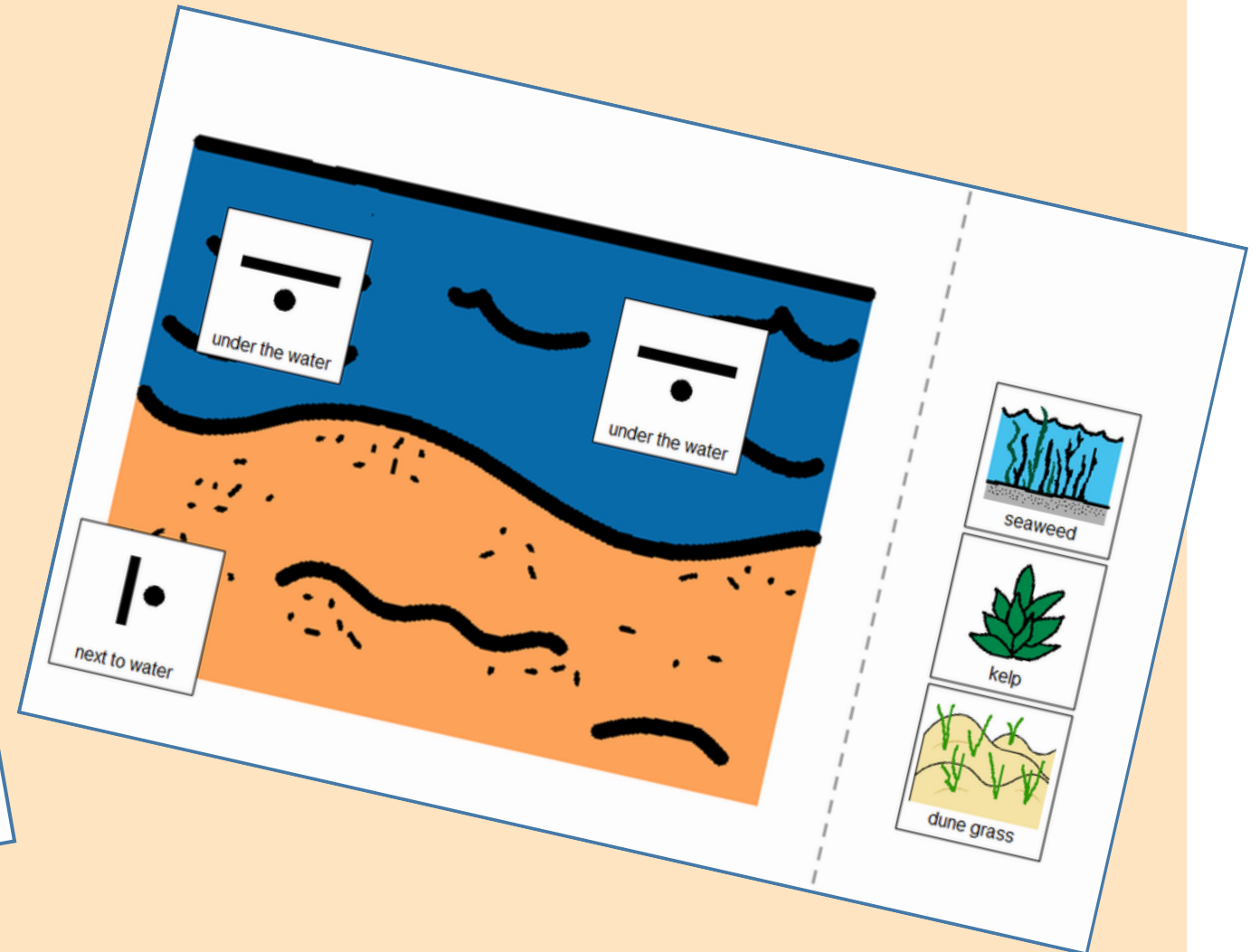
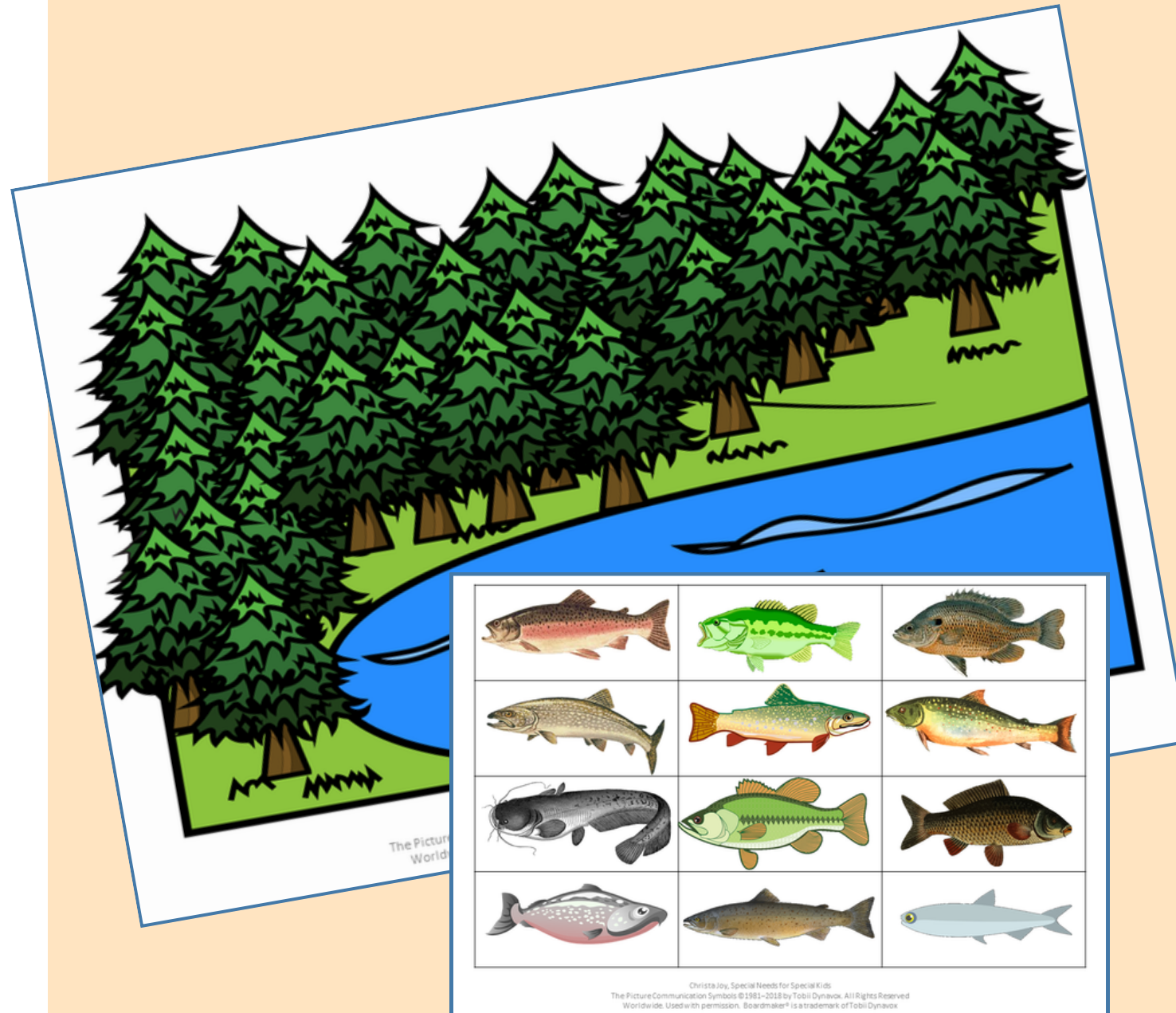
 arctic ocean	 waterfall	 Bering sea	 Indian ocean
 lake	 Atlantic ocean	 iceberg	 Nile River
 Baltic sea	 river	 pond	 pacific ocean

Sort the following photos into those that are saltwater and those that are freshwater. If you are not sure, place it on the center line.

 stream	 pond	 atlantic ocean	 pacific ocean
 lake	 jungle river	 lake	 pond
 glacier	 indian ocean	 river	 pacific ocean

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HANDS-ON ENGAGING ACTIVITIES



BUILD FOOD CHAINS

Food Chain Activity

Materials:

- 3 different sized cups (several of each)
- Plant, animal, and fish pictures

Preparation:

- Attach pictures to cups making sure to attach the animals highest in the food chain to the biggest cups and those lowest in the food chain to the smallest cups
- Write the name of the animal, fish, or plant on the lip of the cup, see below
- You may want to color the cups, so that those that go in the freshwater climate are one color and the saltwater climate are another
- You may need to make several cups of the lower food chain plants, fish and animals.



To play:

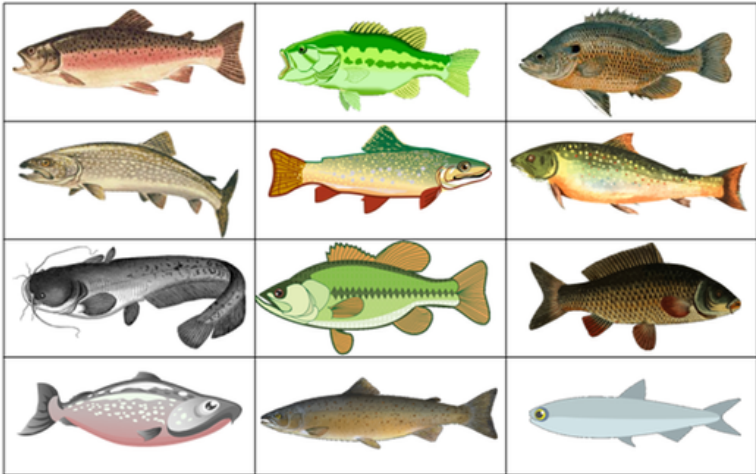
- Arrange the cups on a table or on the floor.
 - Choose the best numbers of cups to use depending on the ability of your students. Obviously, more cups make it more difficult.
- Have each student "build" a food chain by stack 2-3 cups
- Record correct food chains on the board

Questions to ask:

- Could some cups be in more than one food chain?
- Could some cups go in both freshwater and saltwater food chains?
- Why do you think the sizes of the cups are different? Does that help you or make it more difficult?
- What do you think would happen to some of the larger cups in the food chain if we ran out of smaller cups?

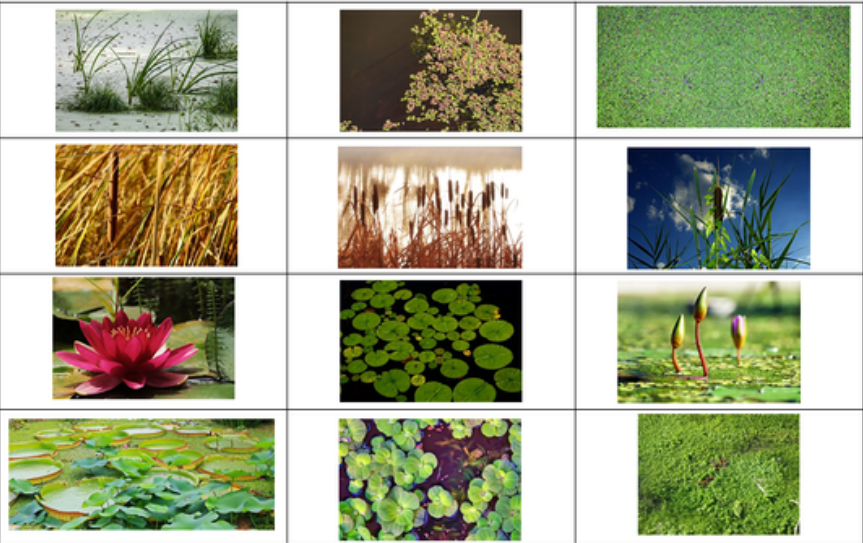
Pictures to put on cups

freshwater



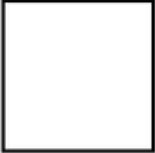
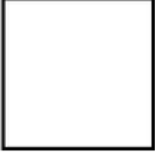
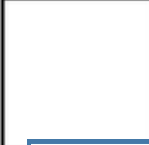
Pictures to put on cups

freshwater



BUILD FOOD CHAINS

 Food Chains  Level 2

	→		→	 heron
	→		→	 fox
	→	 frog	→	


fish


duckweed

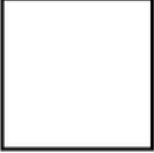
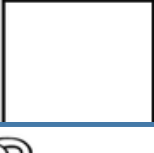

fish


lily pad


fly

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 Food Chains  Level 2

	→		→	 shark
	→		→	 killer whale
	→	 fish	→	


d


fish

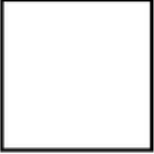
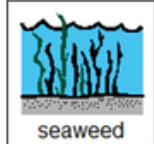
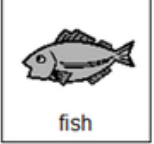

kelp


swordfish


sea lion

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 Food Chains  Level 1

 kelp	→		→	 sea lion
	→		→	 penguin
 seaweed	→	 fish	→	


fish


kelp


fish


swordfish

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- FRESH & SALTWATER
- 2 LEVELS

ASSESSMENTS

Version 1

1. Most of the world is covered with what type of water?



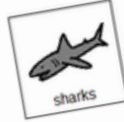
2. Rivers, lakes, and ponds are made up of what type of water?



3. Which type of water do people and animals need to drink?



4. What makes the ocean water taste different?



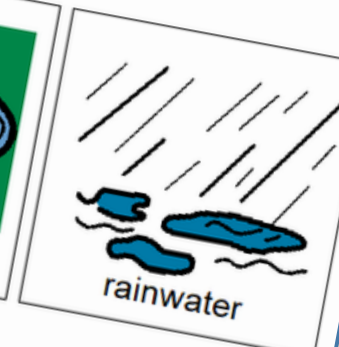
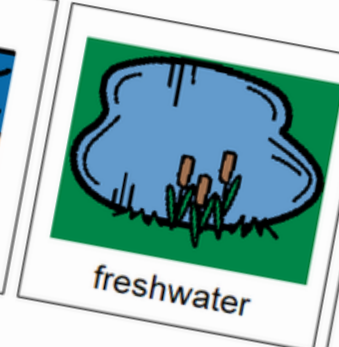
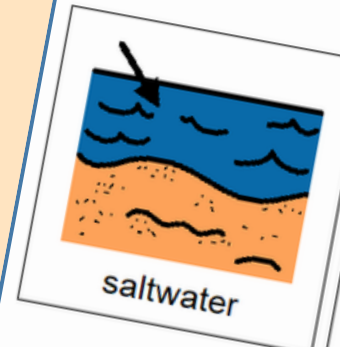
5. What is one thing that is the same for all types of water?



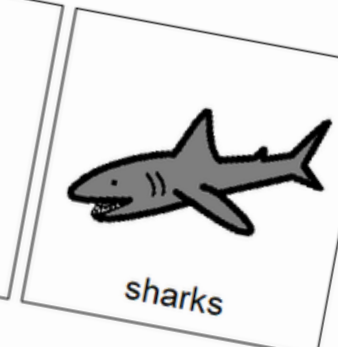
Version 2

Print onto cardstock or mount on index cards. Cut pictures apart and show student answer choices for each question.

Q 1,2,3



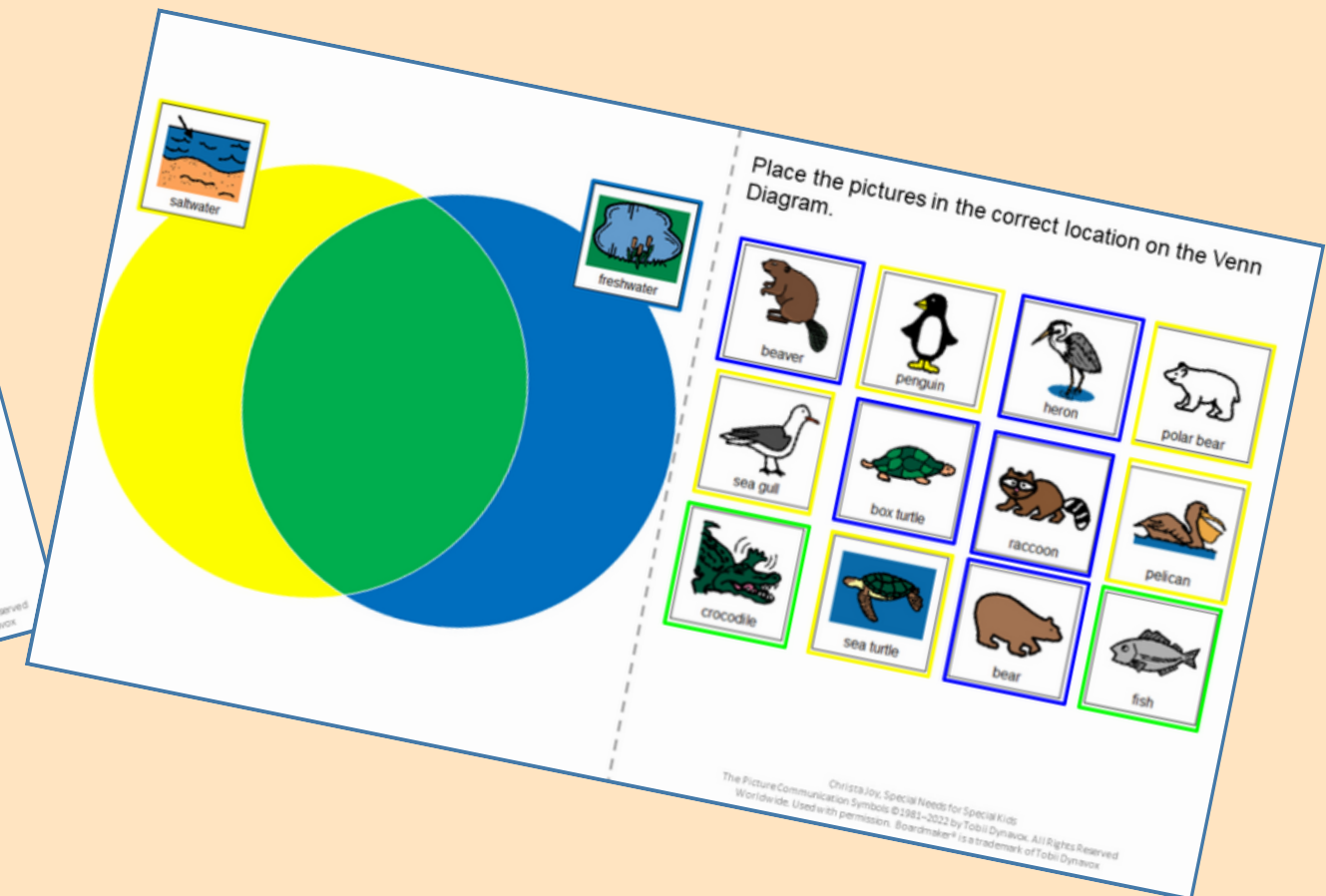
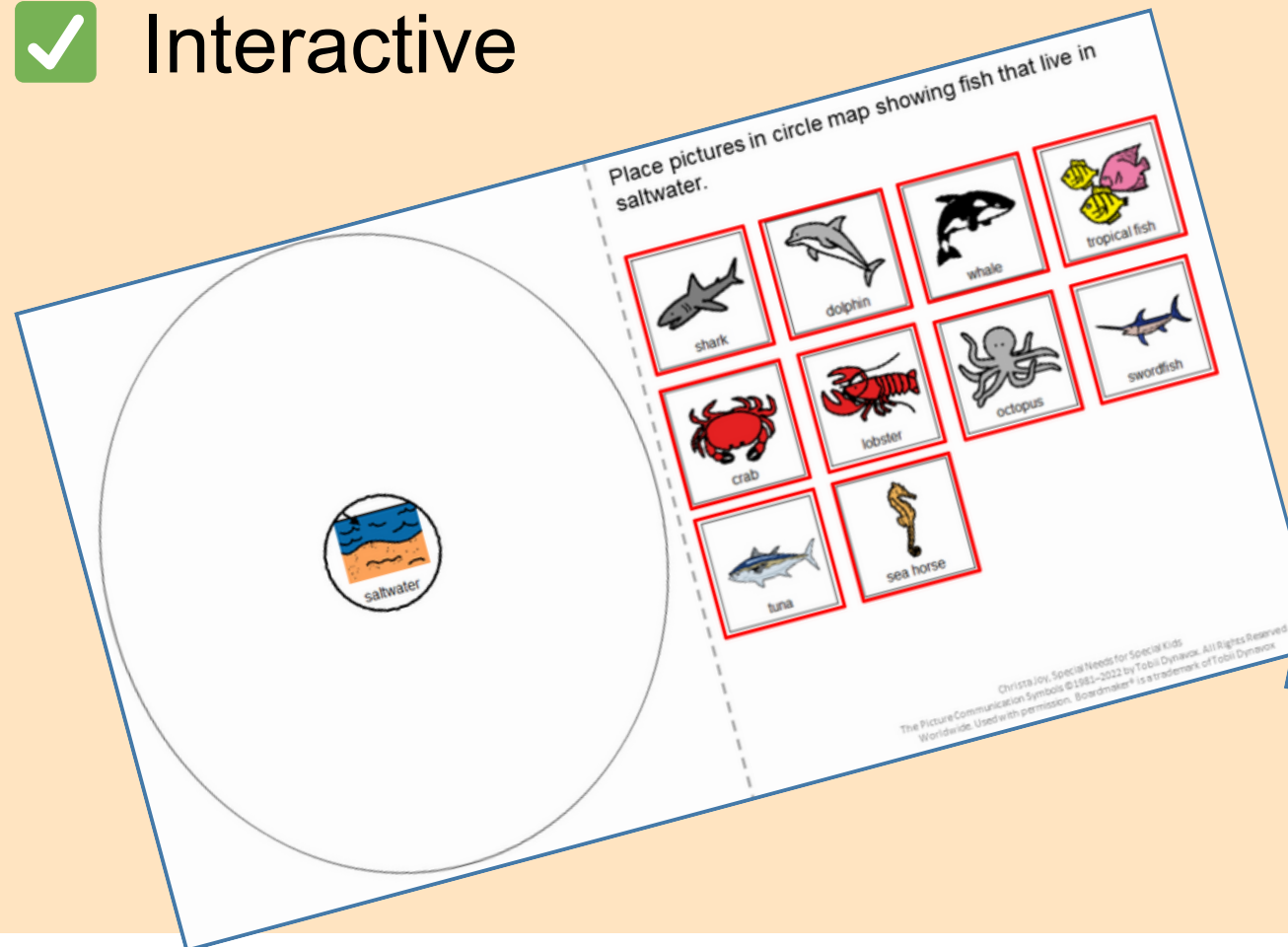
Q 4



DIGITAL ACTIVITIES



- ✓ Provide extra practice
- ✓ Great independent work centers
- ✓ Include a differentiated set of slides
- ✓ Interactive



WHAT TEACHERS ARE SAYING

The adapted book is very helpful in breaking down content into a more accessible unit for my students.

The students' favorite activity was the map activity: They painted the oceans blue and sprinkled salt on the wet paint to represent saltwater. The maps looked beautiful on the classroom walls.