

Cross-Curricular Supplemental Activity Packet

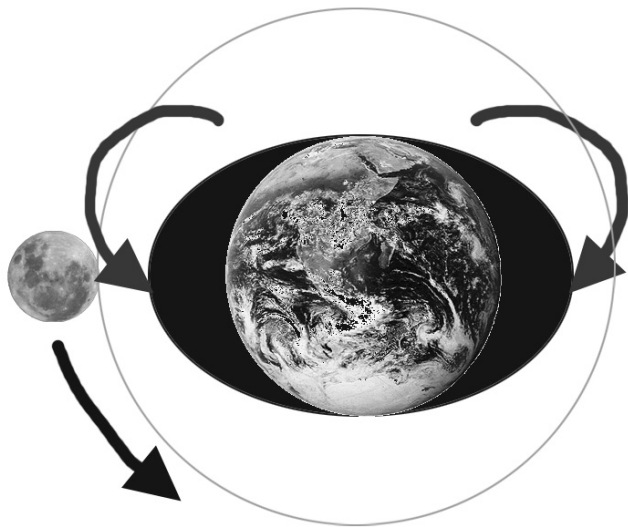
The Glub Club



This packet contains classroom activity suggestions and worksheets to reinforce concepts from the Playbook® story and to go beyond the story into the content areas of Language Arts, Math, Science, Social Studies, Art, Health, etc., as well as Character Development.

Activities range in age appropriateness and skill level so that teachers can choose activities that best suit their particular students. An Answer Key is provided on the last page.

The Ocean Moves



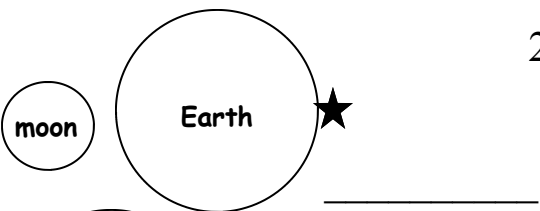
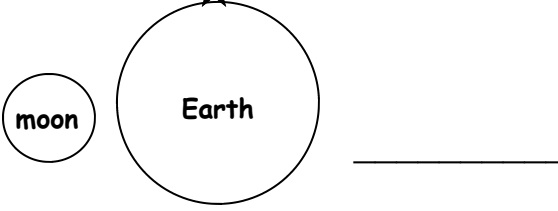
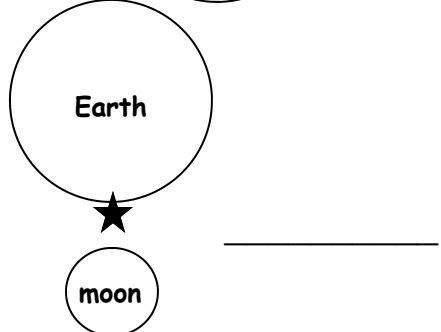
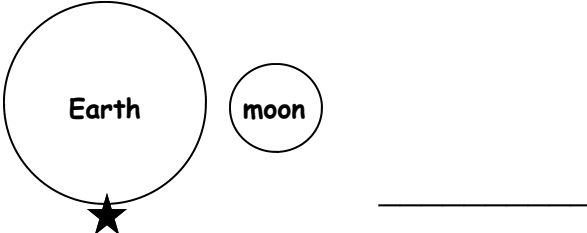
In the story, James and Joy learn that sometimes the water at the beach is lower than at other times because the moon pulls on the water. In fact, the water is slowly moving up and down all the time!

The picture on the left shows how the moon's position around the earth changes during each day. The ocean is pulled toward the side of the earth

that the moon is on by gravity, the same thing that makes something fall to the ground when you drop it. This creates **high tide**. At the same time, the ocean on the side of the earth opposite the moon also rises and is in high tide. The two other sides of the earth have lower water levels and are in **low tide**.

High tide and low tide occur two times each day, and in between, the water is at medium height. As the water level rises or falls, the water comes up farther or less far onto the shores. Tide pools are the area that water sometimes covers and sometimes does not cover.

Directions: Look at the pictures below and write whether the side of the earth marked with a star is in high or low tide.

1.  _____
2.  _____
3.  _____
4.  _____

Words of the Sea

Directions: Before you read *The Glub Club*, your teacher will go over these important words from the story with you.

Mussel



A kind of animal that lives in a shell on a rock.

Sea Anemone (see uh-nem-o-nee)



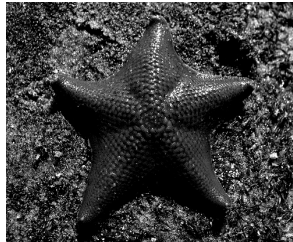
A sea animal with a soft body and lots of thin arms.

Hermit Crab



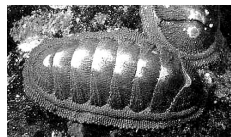
A small crab that lives in a shell.

Sea Star



A sea animal with a hard back that is shaped like a star.

Chiton (kai-tin)



An animal that lives by or in the ocean and has a shell with many pieces.

Tide pools: Pools of water that form between rocks when the tide goes out at an ocean shore. These pools are home to many types of animals.

Adapted: The way animals' bodies work and are shaped to help them live and grow in a certain place.

Name _____

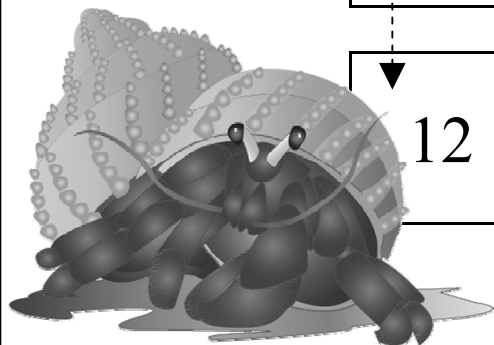
Math at the Beach



James and Joy brought their homework to the beach. Help them finish their assignments so they can look for more tide pool animals!

Directions: The numbers in each row add up to the totals on the right. The numbers in each column add up to the totals on the bottom. The numbers along the two diagonal lines also add up to the totals on the top and bottom right. Fill in the missing numbers.

				8
	9	6	4	22
5			5	15
	0	9		16
1			6	19
12	14	27	19	20



Name _____



Fun With Family



In the story, *The Glub Club*, Joy and James are cousins, and Uncle Pat and Mom are brother and sister. They like spending time together and going on family outings to fun places like the beach.

Directions: Do you have cousins who you get to see ... or aunts and uncles, or grandparents? What family members do you like to go places with? In complete sentences, write on the lines below the fun things you like to do with your family, and which family members are there.

Name _____

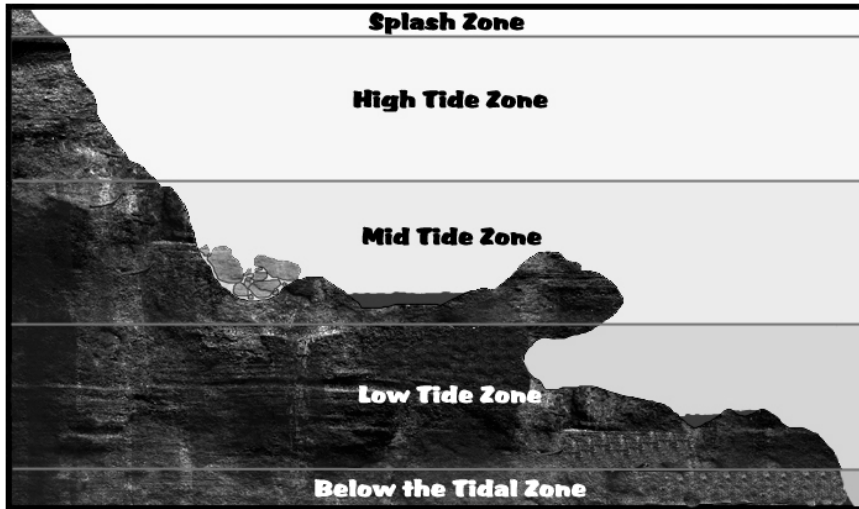
Tide Pool Critters

The shore is divided into several different areas, or **zones**, that each are home to different types of tide pool animals. Some zones are covered in water for longer periods of time than other zones, so the animals live in the zone that best fits their needs.

The **Low Tide Zone** is *only* above water during Low Tide.

The **Mid Tide Zone** is above water when the tide is on its way to Low Tide, and during Low Tide.

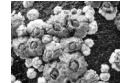
The **High Tide Zone** is above water *except* during High



Animals Found in Zone



Chitons



Barnacles



Mussels



Sea Anemones



Hermit Crabs



Sea Stars



Sponges

Directions: Answer the questions below using what you learned in The Glub Club and the information above.

1. Which animal shown above needs to be under water the most? _____
2. Which animals can be above the water the most? _____
3. How does a sea anemone protect itself when it is above water?

4. How does a mussel keep wet when it is above water?

5. Where is a sea star's mouth? _____

Answer Key

For Teacher Use Only

Math at the Beach

8

3	9	6	4	22
5	2	3	5	15
3	0	9	4	16
1	3	9	6	19
12	14	27	19	20

The Ocean Moves

1. high
2. low
3. high
4. low



Tide Pool Critters

1. a sponge
2. chitons and barnacles
3. It pulls its arms (or tentacles) inside.
4. It keeps its shell closed and sticks onto a rock.
5. It's mouth is underneath it's body in the center.





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