# Lesson 13: Under the Sea, Part 1





### We are going to be reading chapter 9: Earth's Undersea World

Before we start reading, let's go over some vocabulary first! Turn to Activity page 13.1 (workbook page 119)



#### Vocabulary for "Earth's Undersea World"

- 1. **submersible**, *n*. a small vehicle that can travel deep under water for research (submersibles) (82)
- 2. rugged, adj. having a rough, uneven surface (83)
- hydrothermal vent, n. a deep-sea geyser that forms as seawater sinks down through cracks in the oceanic crust and then releases extremely hot, mineral-rich water back up through cracks in the crust (hydrothermal vents) (85)
- seamount, n. an underwater volcano that forms wherever magma is erupting through oceanic crust (seamounts) (87)
- 5. underlie, v. to be located under something (underlies) (87)
- 6. firsthand, adv. coming directly from actually seeing or experiencing something (87)
- school, n. a large number of ocean animals of one type swimming together (schools) (88)

Word(s) from the Chapter	Pronunciation	Page	
anemones	/ə*nem*o*nees/	88	
Jacques Piccard	/jok//pee*kar/	89	
Trieste	/treest/	89	

Let's echo read the words and then we will discuss a few unfamiliar words and review a few familiar ideas!



Chapter 9 Earth's Undersea World

THE BIG QUESTION How does the movement of tectoric plates shape and change the seafloor?

Imagine that you are dropping down, down, down into the middle

ridge marks the boundary between several enormous tactenic plates. Portions of these plates form the bottom of the Atlantic Ocean

of the Atlantic Ocean. The seawater outside the submersible gets darker and darker. Soon the light fades completely. Outside is a watery world as black as night. Finally, the sub's lights pick up shapes below as the ocean bottom comes into view. You see lumpy hills and looming peaks of dark volcanic rock. Welcome to the Mid-Atlantic Ridge. The THE BIG QUESTION How does the movement of tectonic plates shape and change the seafloor?

> Turn to page 82 in your reader and follow along as we begin to read this chapter together. . D)





Would you want to go down into the Mariana Trench?



### Turn to Activity Page 13.2 (workbook page 121 - 123)

	NAME:			
		on that you are close to a vent?		
Î.		_		
NAME:	<b>13.2</b>	l Vents		
Excerpt from "Earth's Und		: find they tunt for 1. Hot, mineral slowly away from		
nagine you are a geologist searching for a hydrothermal vent as you read the following for a hydrothermal vent as you read the following for a hydrothermal vent as you read the following the excerpt in complete sentences.		forms a plane,		
Hydrothermal Vents		or annole from a sue locate a planne, ot vehicle. When rubot sends		
At first glance, it looks like a fire. Black a a spot in the ridge. It's not smake, though. It's	searing hot, dark water	Sentists		
grathing out of cracks in the rock. It's a hydro Thydrothormal vents are a bit like geysers		s of hot, black. s lise around many		
Park. These deep sea geysets are a bit like grysets Park. These deep sea geysets are much, much land. Hydrothermul vents form as seawater of	hotter than anything on	ms are the largest can grow as tall as		
in the oceanic crust. As it nears the magma ly the water is heated to incredility high tempera	ing below the crust,	abs, footb all-sized		
astonishing 750°P. The water is so hot that it the surrounding baselt. The minerals become	dissolves minerals from	vydrothermal vents		
salt does when it's stirred into a plaas of water		21		
At a hydrothermal vent, the super-heated somes making back up through stacks in the	crust, It aboots nut of the			
rock with the firrer of water bianting out of a t yent water meets cold acayster, the dissolved become solid again. They form tiny particles.	esinerali in veni water	1 Tre	viyflack   Unit 5 123	
vent water look like dark amoke.	The particular many los			
		cofficential work in the		
	Sec. 31.1 (c)			
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	the state			
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for the later and a first finder	Activity Book   Unit 5 121			



## Let's go back to our descriptive paragraphs...Remember our example paragraph?

My name is Leah Lava, and I feel as hot as the sun! That's probably because I'm lava shooting down the side of an active volcano. I hear a deep rumble behind me as rocks and debris spew out of the mountain, and I wonder if the plume is still reaching toward the blackening sky like an opening umbrella. As soon as I feel the air touch me, I begin to cool down. Thank goodness! It was getting awfully hot. As I cool, I harden, forming igneous rock. After all that hot activity, I like feeling wind blow across me and rain rinse my body. Sometimes I get uncomfortable in the scorching sun or the freezing cold, but I feel calm listening to the birds chirping around me and tasting the water that trickles over me.

What are the 3 types of sentences?

topic sentence, detail sentences, concluding sentence

What literary device or tool is being used in the paragraph?

#### personification



Now take a look at your completed Activity Page 12.3!



#### Time to create a draft of your descriptive paragraph.

• Remember your 3 types of sentences: topic, detail, and conclusion

Humor

(funny)

**Capitals** and

punctuation

- Make sure you are using personification
- Try using alliteration or a simile

Clear

pictures for reader

• Be creative!

Remember to turn in the draft of your descriptive paragraph



Complete sentences