# Middle School Science: Colonizing Mars Juicy Sentence Example

# JUICY SENTENCE

"Harnessing these traits might also someday allow astronauts to journey farther than Mars, out to some even more exotic and dangerous cosmic locales."

Excerpted from "Colonizing Mars May Require Humanity to Tweak its DNA" by Mike Wall (para 6)

## WHOLE

## Questions about the Sentence

Display and read paragraph 6 aloud for context. Then reread aloud the juicy sentence. Pair students and invite them to Turn and Talk or Think-Pair-Share in response to these questions:

- What's the gist of this sentence? (If students can answer this question and be in the right ballpark, consider skipping the vocabulary question below since we will work with words and phrases a bit later.)
- Are there any words or phrases that are unfamiliar to you? (You may wish to provide this sentence on a handout and ask students to circle unfamiliar or interesting words and phrases and share them with a partner. I recommend circulating to address common words or phrases that may need direct instruction to understand the gist of the sentence. We go deeper with vocabulary and comprehension a bit later on in the lesson.)
- How might you say this sentence in your own words?

#### PART: Break it Down!

#### Questions about the chunks:

Consider displaying the juicy sentence and model breaking it into chunks. The chunks may differ depending on your intended purpose of the comprehension. I generally break the sentence into logical phrases. Provide pairs of students with these sentence chunks cut up and placed in an envelope.

Harnessing these traits	migł	it also someday	allow astronauts to journey	
farther than Mars,	out to some even more exotic	and dangerous	cosmic locales.	
<ul><li>chunks, discussing the order,</li><li>Ask this question emphasizing</li></ul>	playing with the language, etc. re g the italicized word, <i>these</i> : "Wha ed to look in the paragraph to kno	gardless of whether or not the ser	chunks. We students to be rereading the ntence can be rearranged with meaning.) se traits" tell us? What is the word "these' to?	
	tand what is needed to "allow ast	ronauts to journey farther than Ma	rs"? (I'm trying to get students to focus or	
<ul> <li>What do you think it m</li> <li>What words does the author u</li> <li>What comes to mind w</li> </ul>	when you hear the word exotic?		da yayı karayı Q	
$\circ$ So, what is the author	or thinks Mars is a place with palr saying about Mars when he uses ek exōtikos 'foreign', from exō 'ou		do you know?	
<ul> <li>The word <i>cosmic</i> mea</li> <li>Now focus on the word <i>locale</i></li> <li>Reinforce that <i>locale</i> means a</li> </ul>	place.		you of a word you know?	
<ul> <li>What do you think the phrase</li> <li>What does the author think the</li> </ul>				

# WHOLE

#### Take a Step Back

- Now, let's reread the juicy sentence. What do you think is the meaning of this sentence?
- How has your understanding of the sentence changed?
- How does this sentence relate to our study of natural and genetic adaptations?

## WRITING PRACTICE:

You try it!	After reading and	analyzing this sente	nce use your k	nowledge of Kepler or	Trappist to write	a sentence about ho	w your planet is exotic
and dange	erous.						

You can use these questions to help you get started:

- What planet are you going to write about?
- What makes this planet exotic?
- What dangers will they face?
- What traits will people need to control to survive on the planet?

Sentence Frames for Additional Support									
1.	To survive on _		_ a place with	, people will need					
		(planet)	(describe the exotic condition	ons and dangers)					
			to survive.						
	(traits needed for survival)								
2.	On a planet like		, a cosmic locale with	, harnessing traits like					
		(planet	(describe the ex	xotic conditions and dangers)					
	will be essential for survival.								
	(traits r	needed for su	rvival)						