

# Callisto™: Space Innovation Tour Note Catcher

Name: \_\_\_\_\_ Class: \_\_\_\_\_

*How can technology being tested in NASA's Artemis I flight test potentially be used to help future astronauts navigate challenges of space travel?*




**Directions:** At each stop on the tour, record new vocabulary using the word bank below. At the end of each stop, reflect on what you learned about our investigation question.


*What do you already know about the challenges astronauts face in deep space travel?*

\_\_\_\_\_

\_\_\_\_\_

intent	payload	latency	codec	telemetry	utterance
Artemis	wake word	Deep Space Network	radio waves	voice ai	bandwidth

Stop:	Vocabulary:	Facts I learned at this stop:
<b>Welcome</b> 	_____: a series of missions with one of the goals being to put the first woman and person of color on the moon. (Slide 4)	
<b>Getting to Space</b> 	_____: anything that a vehicle or spacecraft carries, such as people, equipment, food, experiments, supplies, and more. (Slide 9)	
<b>Deep Space Communication</b> 	_____: a worldwide radio system responsible for communicating to NASA spacecraft during far away space missions. (Slide 11)  _____: type of invisible energy often used to send information to and from technologies, such as television, mobile phones, and radios. (Slide 13)	

Stop:	Vocabulary:	Facts I learned at this stop:
<p>Callisto Payload</p> 	<p><b>Experiment 1: Telemetry</b></p> <p>_____ : the process of using a computer system to automatically collect measurements and information even from faraway places. (Slide 19)</p> <hr/> <p><b>Experiment 2: Video Communication</b></p> <p>_____ : the delay between an action and a computer's response. (Slide 24)</p> <p>_____ : the maximum amount of information (or data) that can transfer in a given amount of time. (Slide 24)</p> <p>_____ : technology that squeezes video into a digital form to make it easier to send. (Slide 24)</p> <hr/> <p><b>Experiment 3: Voice Artificial Intelligence</b></p> <p>_____ : technology that recognizes human voices, interprets their meaning, and offers a response in return. (Slide 28)</p> <p>_____ : a word spoken to activate voice artificial intelligence (Slide 30)</p> <p>_____ : a question or command spoken by a user to voice artificial intelligence (Slide 30)</p> <p>_____ : the desired response after asking voice ai a question or command (Slide 30)</p>	

My favorite part of the tour was \_\_\_\_\_ because...

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