

Callisto™: Space Innovation Tour Note Catcher - Answer Key


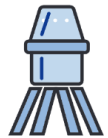

Name: _____ Class: _____


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:
Welcome 	Artemis : a series of missions with one of the goals being to put the first woman and person of color on the moon. (Slide 4)	
Getting to Space 	payload : anything that a vehicle or spacecraft carries, such as people, equipment, food, experiments, supplies, and more. (Slide 9)	
Deep Space Communication 	deep space network : a worldwide radio system responsible for communicating to NASA spacecraft during far away space missions. (Slide 11) radio waves : 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>Experiment 1: Telemetry</p> <p>telemetry: the process of using a computer system to automatically collect measurements and information even from faraway places. (Slide 19)</p>	
	<p>Experiment 2: Video Communication</p> <p>latency: the delay between an action and a computer's response. (Slide 24)</p> <p>bandwidth: the maximum amount of information (or data) that can transfer in a given amount of time. (Slide 24)</p> <p>codec: technology that squeezes video into a digital form to make it easier to send. (Slide 24)</p>	
	<p>Experiment 3: Voice Artificial Intelligence</p> <p>voice AI: technology that recognizes human voices, interprets their meaning, and offers a response in return. (Slide 28)</p> <p>wake word: a word spoken to activate voice artificial intelligence (Slide 30)</p> <p>utterance: a question or command spoken by a user to voice artificial intelligence (Slide 30)</p> <p>intent: 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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