

## Quest Lesson Guide: Capture Constellations at Night

<b>Pillar:</b> ARTS	<b>Concept:</b> Photography	<b>Code:</b> AP1.3	<b>Level:</b> 1
<b>Summary:</b> Capture constellations at night			
<b>STEAM Integration:</b> Science (Earth and Space Sciences)			
<b>Learning Objectives</b>			
<b>Students will learn about...</b>		<b>Students will learn to...</b>	
Learn how to use camera and journal		Use the camera tool to take photos. Organize photos into groups (classify). Use the camera in low light.	

### Quest Introduction:

Mission Control want you to survey the night sky from this new planet and take photos of the stars. See how many constellations you can find and try to name each.

*Students use the camera to photograph Constellations and record in their Mission Log (journal)*



### Fun Facts:

If you look up at the night sky do you see any pictures in the stars? If you do, these are called constellations. There are many famous constellations seen from different parts of the world. Taking photos at night is tricky as cameras rely on light to capture color and detail. But see if you can snap some constellations anyways.

Your flash won't be much help because the constellations are too far away for its light to reach them. Instead, keep the camera shutter open for longer to capture the light reflecting back from the stars. This is called slow shutter or long exposure photography.

**In-Game Assessment:**

The students earn XP in the following badges: 1. Photographer – 25% 2. Star Gazer – 25%	Related in-game quiz that tests concepts: 1. Quiz Code: QAP1.2
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**Formative Assessment:**

Once the student finished a quest, you can also assess them based on observation and discussion, and according to the following scale. If assessing a student's partially completed project, use the "Notes" section. In this case, assess the child based on their understanding of the projected learning outcomes and how effectively they implemented them on the part of the project they did complete.

5	4	3	2	1
Complete Achievement of goal/task/ understanding	Mostly Complete Achievement of goal/task/ understanding	Partially Complete Achievement of goal/task/ understanding	Very Incomplete Achievement of goal/task/ understanding	Did Not Complete goal/task/ understanding

**Notes:**

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