

Quest Lesson Guide: Helicopter Photo Essay

Pillar: ARTS	Concept: Photography	Code: AP1.2	Level: 1
Summary: Helicopter photo essay.			
STEAM Integration: Science (Simple & Complex Machines)			
Learning Objectives			
Students will learn about...		Students will learn to...	
Observe and describe objects and events encountered in the world.		Observe and describe objects and events they encounter in the world. Make predictions about built environments and design.	

Quest Introduction:

Mission Control have requested a photo essay of your helicopter design. Take pictures of the different parts of your helicopter, then add notes in your journal explaining the function of each.

Students create a photo essay exploring Helicopter design



Fun Facts:

Did you know that Helicopters move forward with thrust, the propulsive force of the engine. When the helicopter is in the air, tilting the blades forward and increasing your engine power pushes the whole helicopter forward! Awesome!

Flying a chopper is all about BALANCE! One wrong move and you could start falling from the sky! Eeeek! That's where the tail rotor comes in. If there wasn't a tail rotor, the helicopter would spin around in the opposite direction of the main rotor blades. The tail rotor's main function is hold the helicopter straight. What a tale!

In-Game Assessment:

The students earn XP in the following badges: 1. Machines 101 – 25% 2. Photographer – 25%	Related in-game quiz that tests concepts: 1. Quiz: Simple & Complex Machines
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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:
