

ELD STANDARD:	Language of Science	EXAMPLE TOPIC:	Engineering Design
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CONNECTION:

MS-ETS1-4: Students who demonstrate understanding can: Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved.

EXAMPLE CONTEXT FOR LANGUAGE USE:

Student groups will determine which paper airplane will travel farther. They will hypothesize, construct airplanes, conduct an experiment and collect data and explain the outcome to a partner or the class.

COGNITIVE FUNCTION: Students at all proficiency levels will ANALYZE models of airplanes and the distanced they will fly.						
	Level 1 Entering	Level 2 Emerging	Level 3 Developing	Level 4 Expanding	Level 5 Bridging	Level 6 - Reaching
DOMAIN: Writing	Match words to their part in the process including the hypothesis, experiment and outcomes of the airplane assignment using manipulative, a partner and a word bank.	Write key words about the process including the hypothesis, experiment and outcomes of the airplane assignment using using cloze sentences, with a partner and a word bank.	Write sentences the hypothesis, experiment and outcomes of the airplane assignment using sentence frames, with a partner and a word bank.	Write a paragraph about the hypothesis, experiment and outcomes of the airplane assignment using a paragraph frame and a word bank.	Write a paragraph with supporting details about the hypothesis, experiment and outcomes of the airplane assignment using a word bank as needed.	
TOPIC RELATED LANGUAGE: Hypothesis, experiment, distance, design, feet, yards, data, lift, gravity, thrust, drag						

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Lesson Plan: Purchased from TeachersPayTeachers (\$1.25) - <https://www.teacherspayteachers.com/Product/Paper-Airplane-Activity-702769>