

Elective 7: Reading and Writing in Science

1. Identify a NASA-themed reading or writing resource to get students thinking about force and motion.

NASA-Themed Resource: [It's not rocket science: we need a better way to get to space.](#)

2. Create a provocative reading/writing prompt to help students to narrate their thinking about concepts of force and motion.

In order to help my students make connections between the aforementioned [NASA-themed resource](#) and the concepts of force and motion I will use a Claim-Evidence-Reasoning (C.E.R.) writing strategy based on the following prompt:

Is getting into space more of a physical challenge or an economical challenge?

Before reading the article the students will make a claim (an arguable statement) that answers the prompt. Their statement should be one sentence in length and should not include any explanation, reasoning, or evidence. Once a claim has been made the students will gather evidence from the text that supports their claim. Minimally, the evidence should include three well-selected supporting quotes with an MLA citation as required by our ELA team. Lastly, the students will provide reasoning in the form of an explanation of why and how their evidence supports their claim.

3. Identify a connection to appropriate Common Core State Standards and to any local relevant standards.
 - ❖ CCSS.ELA-LITERACY.WHST.6-8.1A
 - Introduce claim(s) about a topic or issue, acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.
 - Students utilize a C.E.R. to make a claim about whether getting to space is more of a physical or economical challenge.
 - ❖ CCSS.ELA-LITERACY.WHST.6-8.1B
 - Support claim(s) with logical reasoning and relevant, accurate data and evidence that demonstrate an understanding of the topic or text, using credible sources.
 - Students utilize a C.E.R. writing strategy to support their claim with logical reasoning and evidence to demonstrate their understanding of the topic and text.
 - ❖ CCSS.ELA-LITERACY.WHST.6-8.1C
 - Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.
 - Students use words, phrases, and clauses to create cohesion and clarify the relationships for their claim, supporting evidence, and reasoning (C.E.R.).
 - ❖ CCSS.ELA-LITERACY.WHST.6-8.1D
 - Establish and maintain a formal style.
 - The students establish and maintain an “academic writing style” that is clear, concise, focused, structured and backed up by evidence.

❖ **CCSS.ELA-LITERACY.WHST.6-8.1E**

- **Provide a concluding statement or section that follows from and supports the argument presented.**
 - **Students provide reasoning that follows from and supports their arguable statement or claim.**