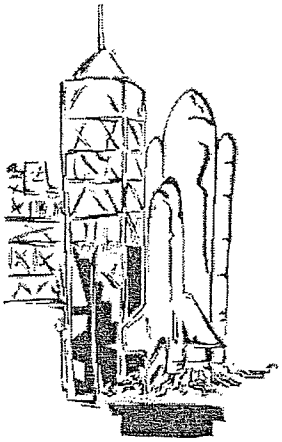
Space Shuttle Launch

CER: Analyze and explain how Newton's Laws describe changes in an object's motion.

Essential Question How does Newton's third law affect the motion of an object?



The motion of space shuttles is caused differently than that of most modes of transportation. As the fuel is burned, the hot gasses produced rush out of the bottom of the craft. This causes the space shuttle to launch into the air.
Describe how hot gasses rushing out of the bottom of a space shuttle cause it to launch. In your response, be sure to include:

- The forces acting on the space shuttle using appropriate terms.
- How Newton's third law allows the space shuttle to launch.
- Why there is a delay between when the fuel starts to burn and when the space shuttle launches.

Be sure to consider the completeness of your response, supporting details, and accurate use of terms. (claim, evidence, reasoning)