

Candidate Focus Questions

for Grade 4 Energy, Every Day, Everywhere

MLG: Position energy (potential energy) can be transformed to motion energy (kinetic energy). The more position energy an object has, the more energy can be transformed to motion energy. As position energy is transformed to motion energy, the faster the object will move.

Candidate	Yes/No	Justification
1. What causes an object to increase its velocity and travel a greater distance and/or experience greater displacement?	no	Not written using everyday language that students will understand at the beginning of the lesson.
2. What happens when two objects collide?	no	Off topic (focuses on transfer instead of transformation from position to motion energy). Does not help students anticipate the MLG for the lesson.
3. What happens to position energy when we increase the height of an object?	no	Does not help students anticipate the <u>complete</u> MLG for the lesson.
4. What is the difference between energy transfer and energy transformation?	no	Off topic. Does not help students anticipate the MLG for the lesson.
5. How can we change the amount of motion energy of an object?	yes	
6. How can we detect different forms of energy?	no	Off topic. Does not help students anticipate the MLG for the lesson.
7. Where in the system are energy changes taking place?	no	Off topic. Does not help students anticipate the MLG for the lesson.
8. How does the distance the rubber band is stretched in a toy car launcher affect the distance the toy car travels?	no	Does not directly connect to energy changes or amounts.