



Activity 3. ROLLER COASTER RIDE

MELC: Identify and explain the factors that affect potential and kinetic energy

DIRECTIONS: Answer the questions by analyzing the simulation provided in this link: <https://tinyurl.com/coaster-ride>. Make sure to re-type this link in another browser.

Rubric:

Score/s for each question	Criteria
0	Question is left blank or incomplete
1	Response includes an answer but does not include any or includes very minimal reasoning.
2	Response includes an answer and detailed reasoning.

<https://peerinstruction.files.wordpress.com/2013/02/jitt-rubric1.png>

1. At which point in the illustration is the PE the highest? Why?

2. At which point in the illustration is the PE the lowest? Why?

3. At which point in the illustration is the KE the highest? Why?

4. At which point in the illustration is the KE the lowest? Why?

5. Would a roller coaster with passengers have more or less kinetic energy? Why?

6. Explain the relationship between potential and kinetic energy between points 1 and 2.