

CLASS SET

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Illustrating Energy Transformation at a Skate Park

Task – Make a skate park poster, showing a skater in 3 different positions on the track: 1) high potential energy, 2) high kinetic energy, and 3) both kinetic and potential energy. You can ignore thermal energy, or friction.

For each skater position, label the energy type and make a bar graph to show the amount (or magnitude) of each energy type (KE and PE). Also, show what happens for total energy (TE).

You should show a track, 3 skaters, and 3 bar graphs. Your drawing also needs a title and caption explaining what your drawing or poster shows.

Grading – See rubric on the reverse side of this sheet

Vocabulary words to include in your illustration (in your drawing and/or in your caption):

- Kinetic Energy
- Potential Energy
- Mechanical Energy
- Total Energy
- Energy Transformation
- Conservation of Energy
- Motion or Speed

Scoring Rubric for Science Drawings

Student Name: _____ Assignment Grade: _____
 -----POINTS POSSIBLE-----

Labels or Terms	4 – All drawing features are labeled, and labels are connected to drawing features	3 – 1-3 features are not labeled, or some labels are not connected to drawing features	2 – 4 or more features are not labeled, or many labels are not connected to drawing features	1 – Minimal effort evident
Correct	4 – All features are correctly drawn and labeled	3 – 1-2 items are not correct	2 – 3 or more items are not correct	1 – Minimal effort evident
Use of Color	4 – Colors are accurately and fully used	3 – Some colors are not accurately used; some items are not colored	2 – Few colors are used	1 – Minimal effort evident
Size	4 – Drawing size and features are large and appropriate (they take up most of the drawing space)	3 – Drawing size and features are adequate, but some empty page space is not used	2 – Size or features are small enough that they are hard to understand	1 – Minimal effort evident
Complete	4 – All features are present and completely drawn	3 – 1-2 features are incomplete or are not present	2 – 3 + features are not present or are incomplete	1 – Minimal effort evident
Title	4 – Title is present, appropriate, and detailed	3 – Title is present and appropriate, but not detailed	2 – Title is present, but not appropriate	1 – Minimal effort evident
Caption	4 – Caption is present, explanatory, and detailed	3 – Caption is present and explanatory, but not detailed	2 – Caption is present, but not explanatory	1 – Minimal effort evident

Total Score: _____ (28 points possible)

* Track Example *

