RECORD SHEET

Activity 2: Mechanical Interactions and Motion Energy

Name Date Class

Key Question

We Think

1. Discuss the activity key question with your team and write your response.

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Explore Your Ideas

The chart shows the motion-energy scenes that you considered in the last activity.

1. Work with your partner. Write the defining characteristic of each type of mechanical interaction. Use *How to Identify Mechanical Interactions*.

Complete the chart below. The first row is completed for you.

The Event	What are the interacting objects?	What is the type of mechanical interaction?	What changes in speed occur?	What changes in motion energy occur?
The goalie throwing the soccer ball	*The goalie and the ball*	*Applied*	*The soccer ball speeds up during the throw.*	*The soccer ball increases in motion energy.*
The goal net catching the soccer ball				
The baseball player sliding on the ground head-first into second base				
The drag car with the parachute slowing down in air				

Try to create a setup with one of each of the four types of mechanical interactions. You must include at least one instance of increasing motion energy and one instance of decreasing motion energy.

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2. Draw a sketch of your setup for mechanical interactions.

Complete a row in the chart below for each interaction.

How to Identify Mechanical Interactions				
Describe the Event	**What are the interacting objects?**	**What is the type of mechanical interaction?**	**What changes in speed occur?**	**What changes in motion energy occur?**

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Make Sense of Your Ideas

1. In general, how can you increase the motion energy of an object?

2. In general, how can you decrease the motion energy of an object?

Our Consensus Ideas

The key question for this activity is:

How can you change the motion energy of an object?

1. Write your answer to the key question.

2. Write the class consensus ideas.

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