

2. Which of these pictures show potential energy that can be converted to kinetic energy? Circle all of the examples that apply.



Boy on diving board



Bow and arrow with arrow pulled



People on a bench



Children at the bottom of a sled hill

Choose one picture you circled. Explain how potential energy is shown in the picture and how it will be converted to kinetic energy in that picture.

3. Use the picture below to answer the questions.



Identify one simple machine in this picture.

How does this simple machine reduce the amount of effort needed?

4. Draw an arrow that points to where the potential energy is in this picture.



Describe what your arrow is pointing to and how potential energy will be converted to kinetic energy.

5. Explain why a drum gets louder when hit harder. Use the words **collision** and **kinetic energy** in your answer.


