|  |  |  |
| --- | --- | --- |
| **CHAPTER 5** |  | BLM 5–5 |
| **SCIENCE INQUIRY** |  Energy Conversions Are Hard |  |

 **to Escape**

{AB.Sc24.B.K.1.i}{AB.Sc24.B.K.1.iii}{AB.Sc24.B.K.1.iv}{AB.Sc24.B.S.2.ii}{AB.Sc24.B.S.3.i}

Name: Date:

Use this worksheet to record your responses for Think & Link Investigation 5–C: Energy Conversions Are Hard to Escape.

* Study each of the visuals in your textbook.
* For each visual, identify the converter, the form of input energy, and the form of output energy.
* Decide and record whether thermal energy is lost or gained.
* Answer the questions that follow in your Science Log or notebook.
* File this worksheet in the correct section of your notebook.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Picture** | The Converter | **Kind of Input Energy** | **Kind of Output Energy** | **Is Thermal Energy Given Off?** |
| **Example** | flashlight | chemical energy (battery) | light energy (bulb) | yes |
| A. Person paddling |  |  |  |  |
| B. Snowblower engine working  |  |  |  |  |
| C. Drill press cutting |  |  |  |  |
| D. Hobby rocket taking off |  |  |  |  |
| E. Person using a trampoline |  |  |  |  |
| F. Person eating a sandwich |  |  |  |  |

Analyze

1. In these examples, are some types of output energy more common than others? Explain.

2. In many energy conversions, some thermal energy (heat) is dissipated. When could thermal energy in these six examples be considered wasted energy? Explain.