



Dear Educator,

This file offers views of some of the worksheets in our “**Heat and Energy**” thematic unit. The cover for an eWorkbook is shown followed by the preview pages.

The “**Heat and Energy**” unit offers **17** pages.

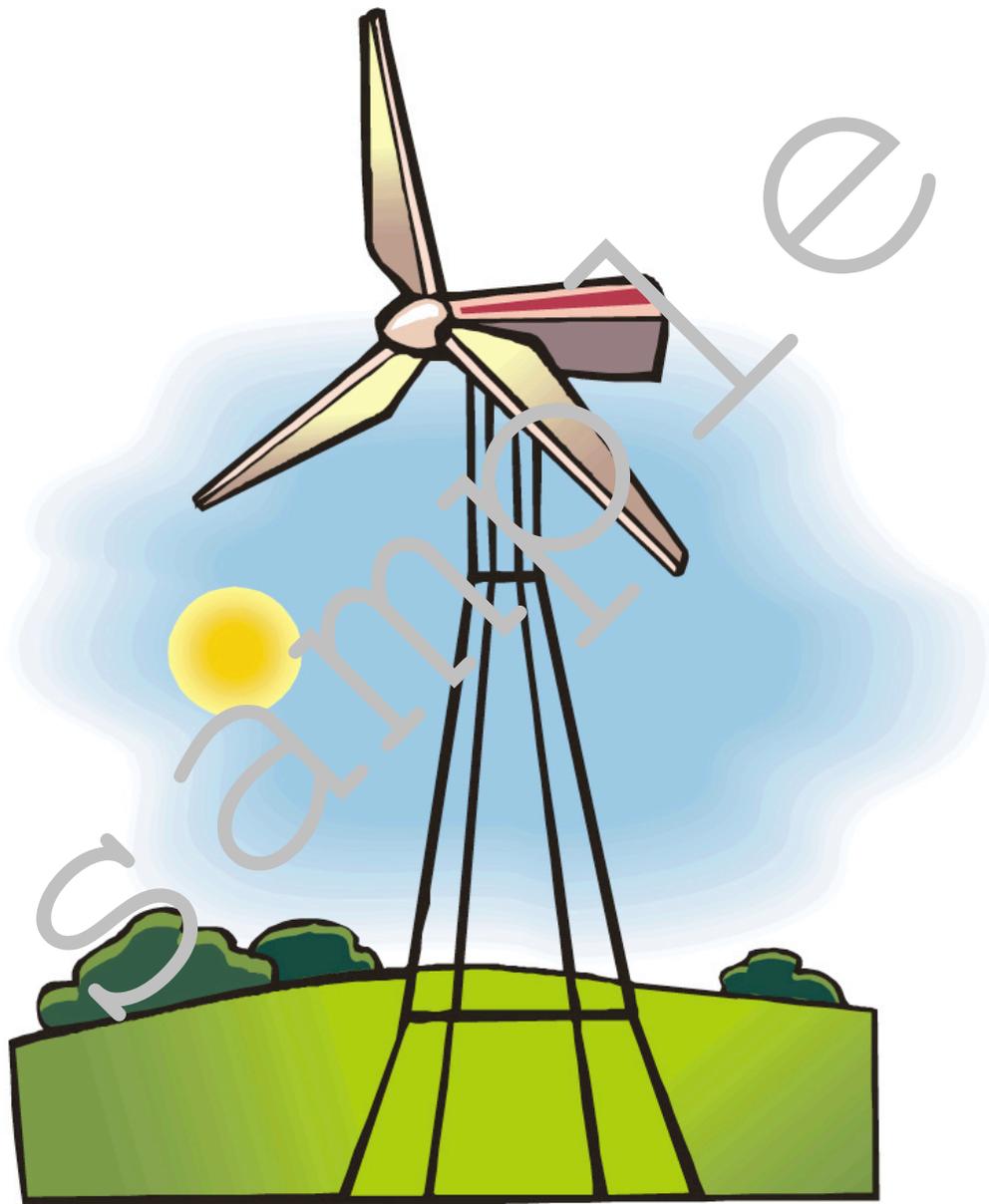
Locate many more eWorkbooks here.

iShopToday.com

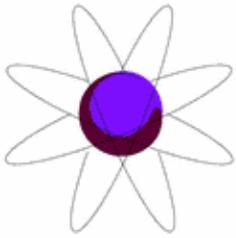
Free worksheets, teacher tools, and more can be found here.

SchoolExpress.com

Heat and Energy



HEAT & ENERGY



All objects have energy. Everything on and of the earth and beyond is made up of atoms and molecules. These are words from the science of chemistry. All atoms have movement.

Atoms also move with the other atoms around them. Some move so slow or fast that you can not see them. This movement is energy.

If an object is just sitting around doing nothing, like a rock or a lamp, it has potential energy. The energy is waiting to be used. If you lift the rock or turn on the lamp, you are transferring energy to it. You give it movement, or kinetic energy.



Look up the definitions of the words below, and write them on the lines.

1. atom _____

2. molecule _____

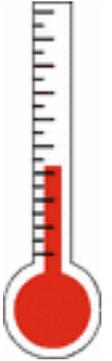
3. kinetic _____

HEAT & ENERGY

Everything has a temperature.

Scientists have a theory that the lowest temperature possible is Absolute Zero. This is minus or negative 459.67 degrees on the Fahrenheit scale.

The highest temperature can only be guessed at. The internal temperature of a star, like the sun, is probably many millions of degrees. How would anybody invent a thermometer to measure that?

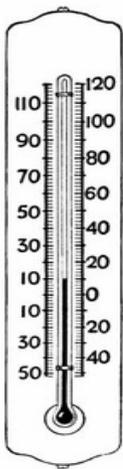


Fahrenheit is the scale used to measure most temperatures in the United States. People in other countries use the Celsius temperature scale. Most branches of science also use the Celsius scale.

On the Fahrenheit scale, water freezes at 32 degrees and boils at 212 degrees. The scale was developed by Gabriel Daniel Fahrenheit. He was the German physicist who invented the mercury thermometer in the year 1714.

Heat is the passage of energy from one object to another. It is the energy being giving off or held inside by an object. Heat can be measured or estimated. The measurement of heat is its temperature.

Draw a thermometer in each box showing the degrees.



20°

50°

30°

HEAT & ENERGY



CRISS CROSS

Can you fit these words into the criss cross?
Use a pencil so you can erase if you need to.

energy
calorie

friction
matter

heat
theory

joule
conduct

