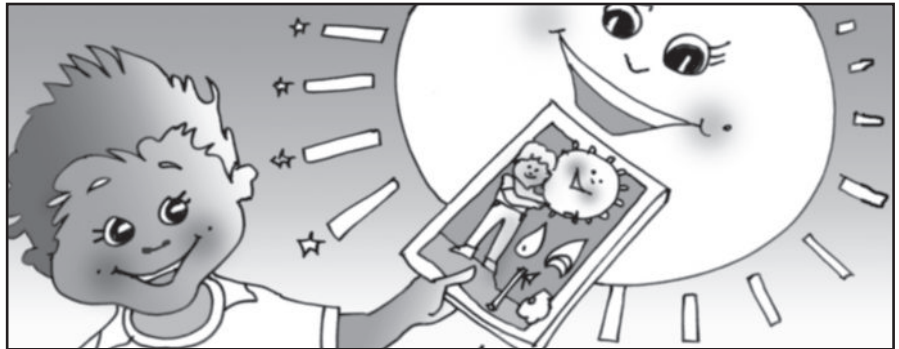


Sources of Energy Coloring Book

Point of Wonder

Have you ever wondered how many sources of energy there are?



Standard I.2



Energy Sources

There are many terrestrial energy sources.

Objective

The students will identify and describe our most common sources of energy.

Instructional Information and Connections

Time: Nine 30-minute periods

Curriculum Focus:

language arts, science, art, math

Skills/Processes:

classify, draw, identify, listen, read

Key Vocabulary:

coal, electricity, energy, food, fuel cells, geothermal features, natural gas, nonrenewable, oil, photovoltaic cells, renewable, source, sun, uranium, water, wind, wood

Background

Energy is essential in our daily lives. It takes energy to breathe, grow, and think. We are even using energy at night while sleeping.

We depend on energy for heat, air conditioning, lights, clothing, food, transportation, and communication.

Where does this seemingly endless supply of energy come from?

There are many sources from which we get our energy. Some are renewable, such as the energy we get from the sun, wind, and water, and also wood and other plants that provide our food. Other sources are more limited or nonrenewable, such as fossil fuels— coal, oil, and natural gas. Some energy sources are only available in certain areas, such as geothermal features or uranium. Some sources are readily available, but difficult to harness, such as ocean tides; some are expensive to extract or might present environmental concerns.

Many sources of energy have been used for hundreds, even thousands of years. Through research we are finding new ways to use available energy, such as hydrogen-powered fuel cells and solar-powered photovoltaic cells. Scientists are constantly searching for additional energy sources and more efficient ways to use them to keep up with our ever increasing energy demands.

Materials / Preparation

- Copy of coloring book on pages 9 through 18 for each student
- Crayons

Learning Activity

1. Each day introduce a new source of energy from the coloring book. Read the captions.
2. Introduce the source; tell how it is used and how it is formed in addition to discussing what the captions say. For younger students, some coloring pages have a dot-to-dot component, others have a counting activity. Have students complete those activities and color the picture.

Sources of Energy Coloring Book



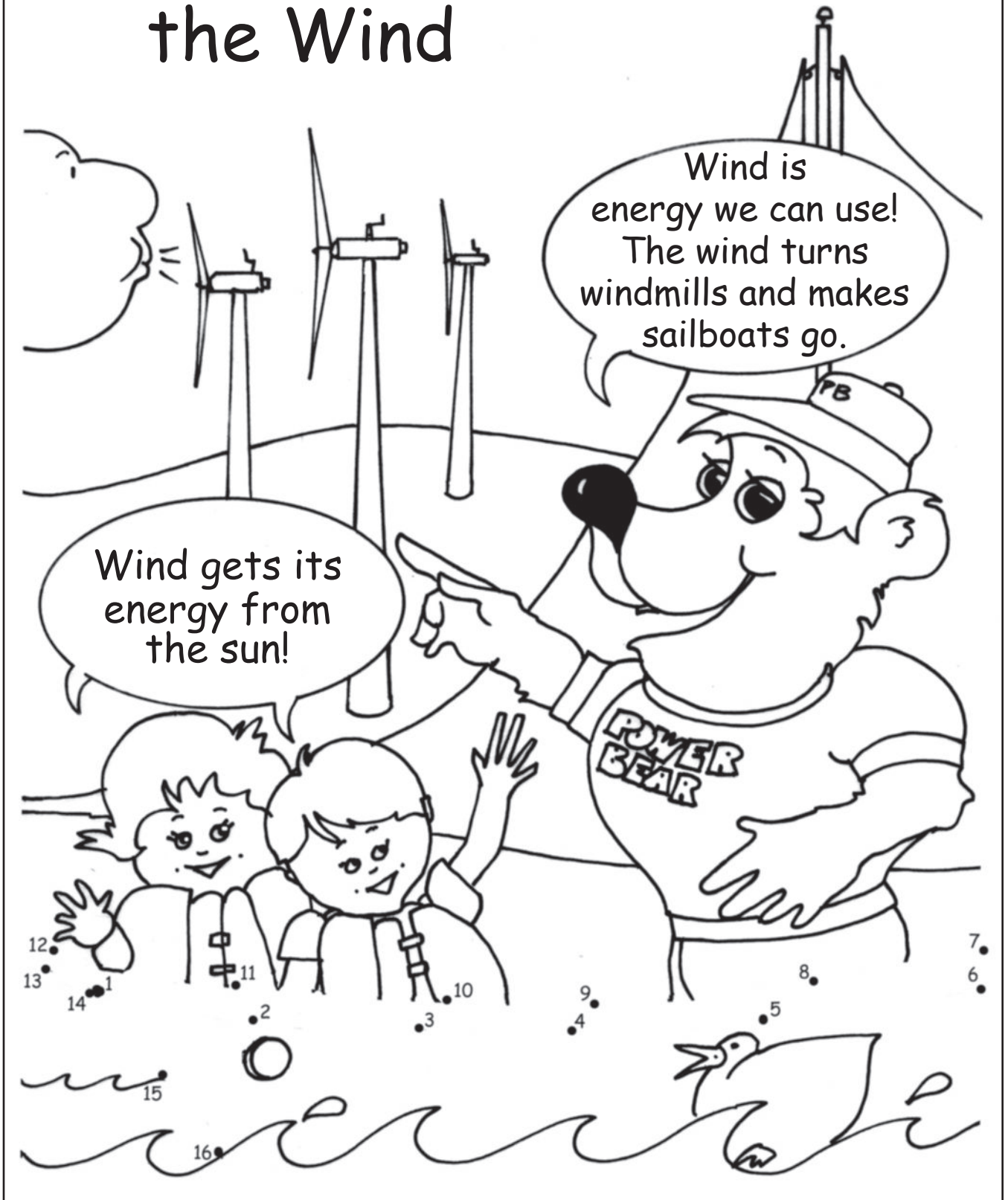
Energy from Food

Food gets its energy from the sun.

Our bodies need food energy to stay healthy and active.



Energy from the Wind



Energy from Oil

Oil got
it's energy
from
the sun!

Oil is
used to make
gasoline for buses,
cars and trucks.

Oil is
burned to
make heat
and to keep
us warm



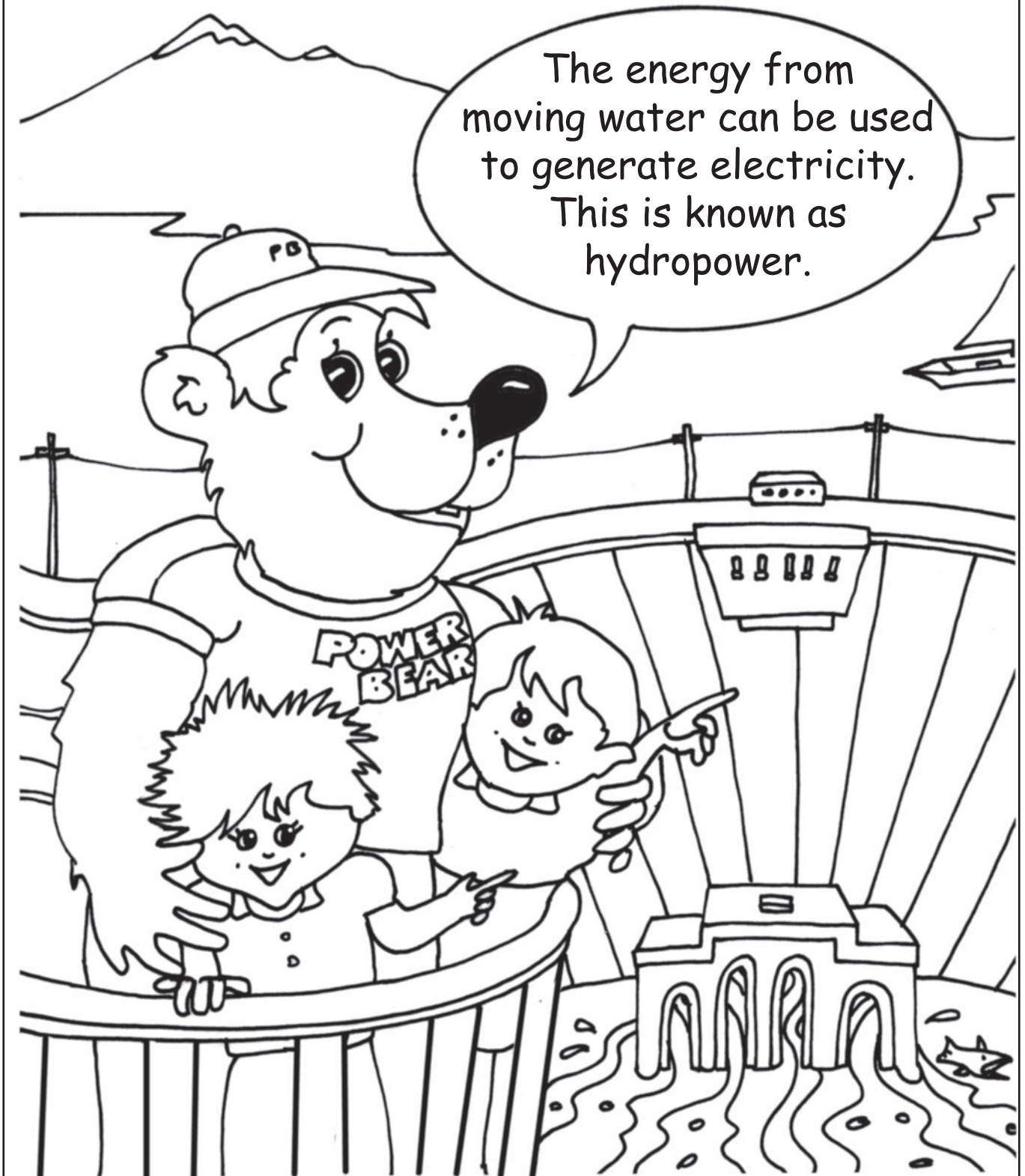
Energy from Wood

Wood
comes from trees.
Trees get their energy
from the sun

Wood's
energy can keep us
warm and cook our
food when we are
camping



Energy from Moving Water

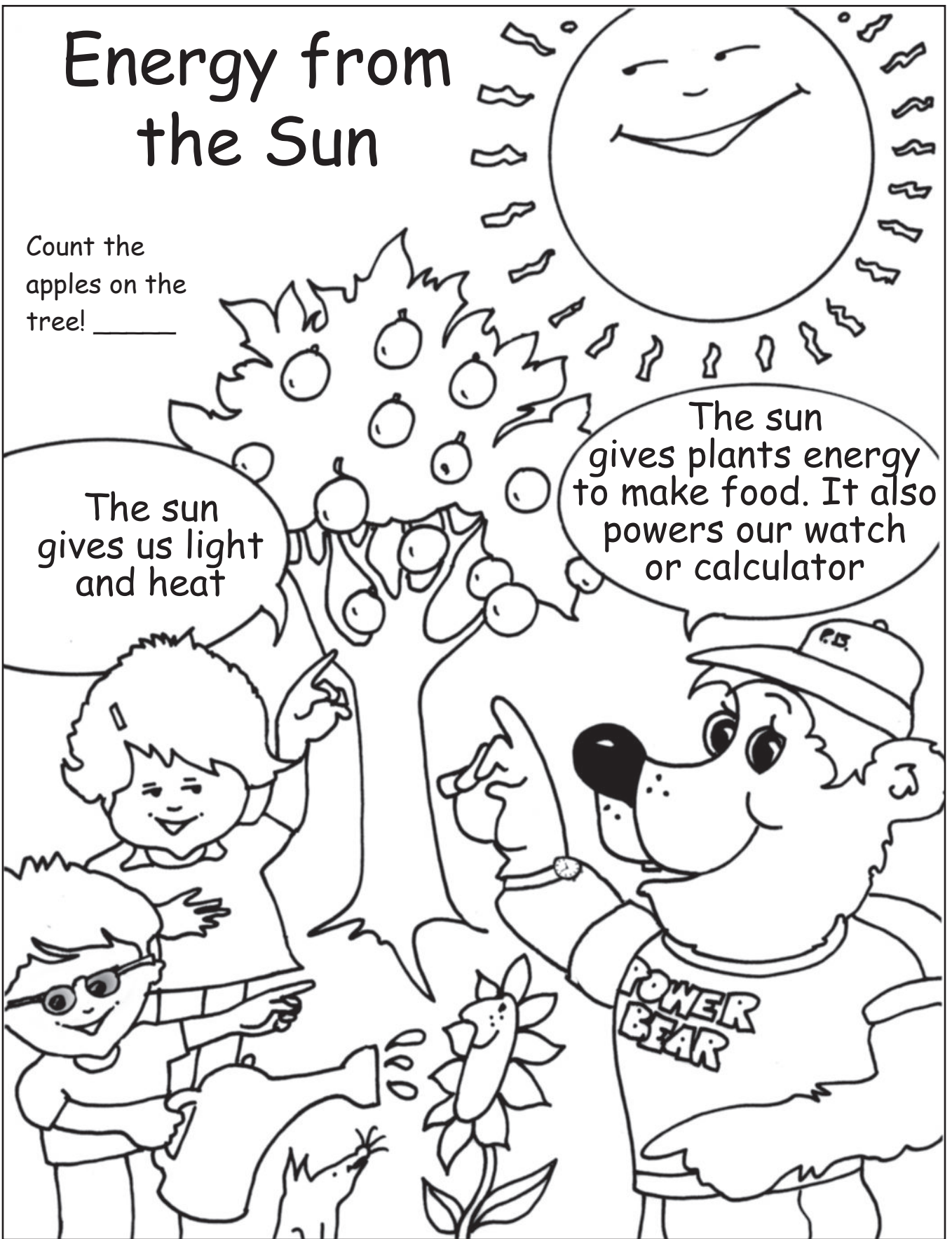


Energy from the Sun

Count the apples on the tree! _____

The sun gives us light and heat

The sun gives plants energy to make food. It also powers our watch or calculator



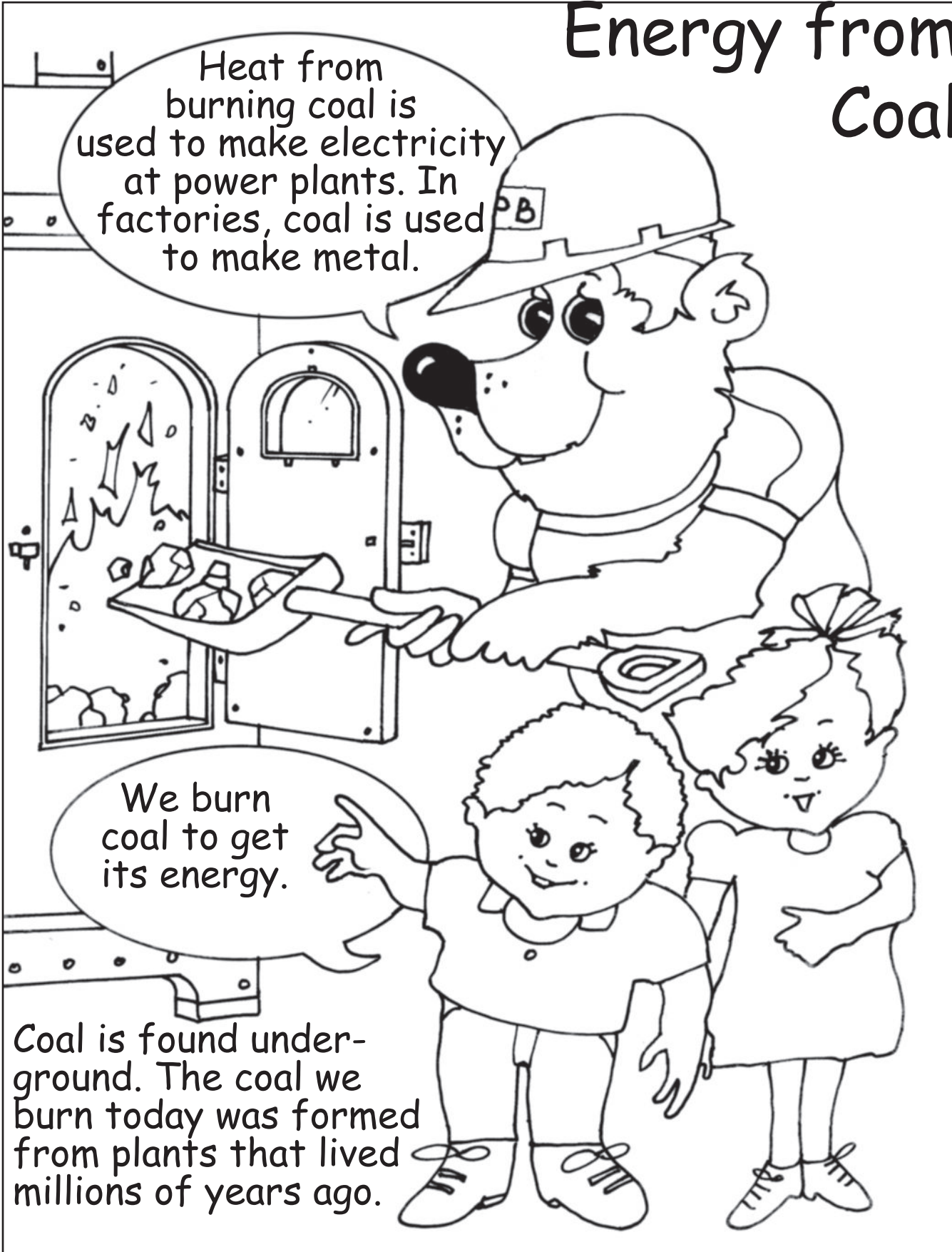
Energy from Natural Gas

Natural gas is used to cook our food, heat our water and keeps us warm. It is even used to fuel our vehicles.



A long time ago natural gas got its energy from the sun.

Energy from Coal



Heat from burning coal is used to make electricity at power plants. In factories, coal is used to make metal.

We burn coal to get its energy.

Coal is found underground. The coal we burn today was formed from plants that lived millions of years ago.

Energy for Electricity

Electricity is a secondary energy source. The energy to generate electricity comes from other energy sources.

