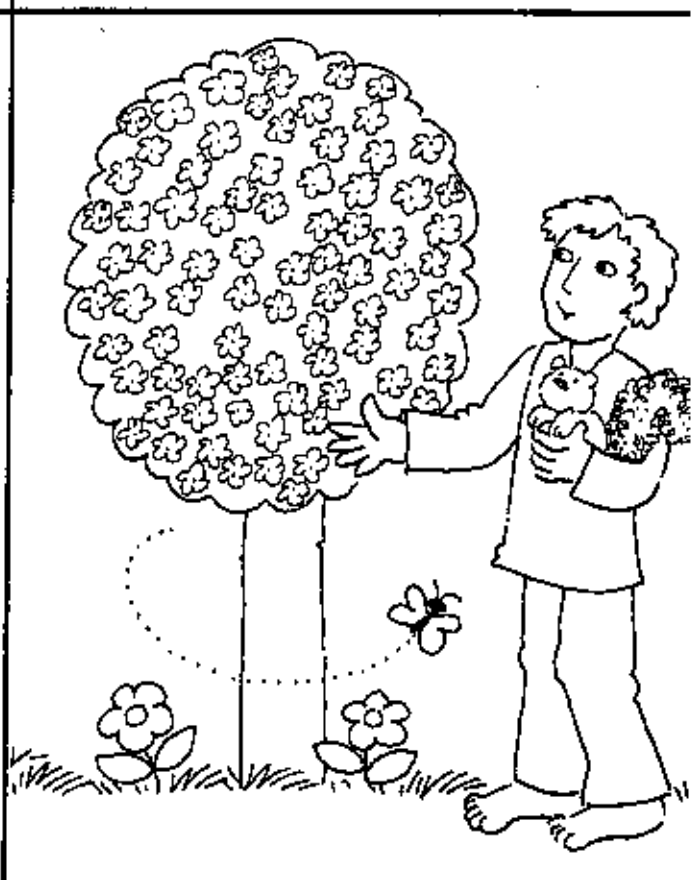
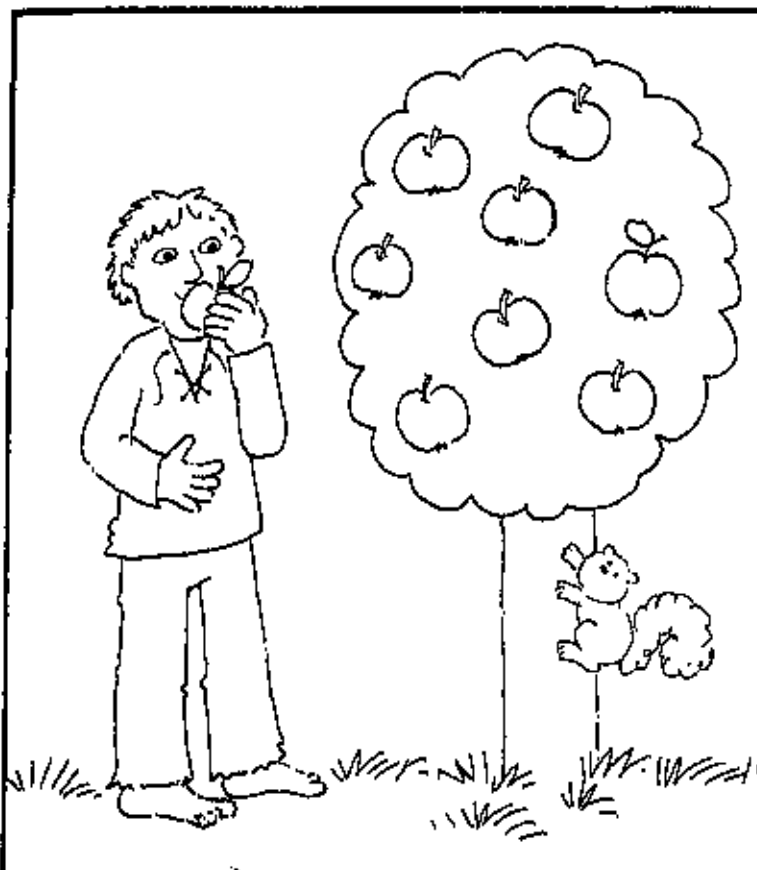


APPLE TREE SEQUENCING



Color the pictures of Johnny Appleseed and his trees.
Cut the pictures apart. Then glue them on another
sheet of paper in the correct order.

Objective: to broaden understanding of world around them and how things work

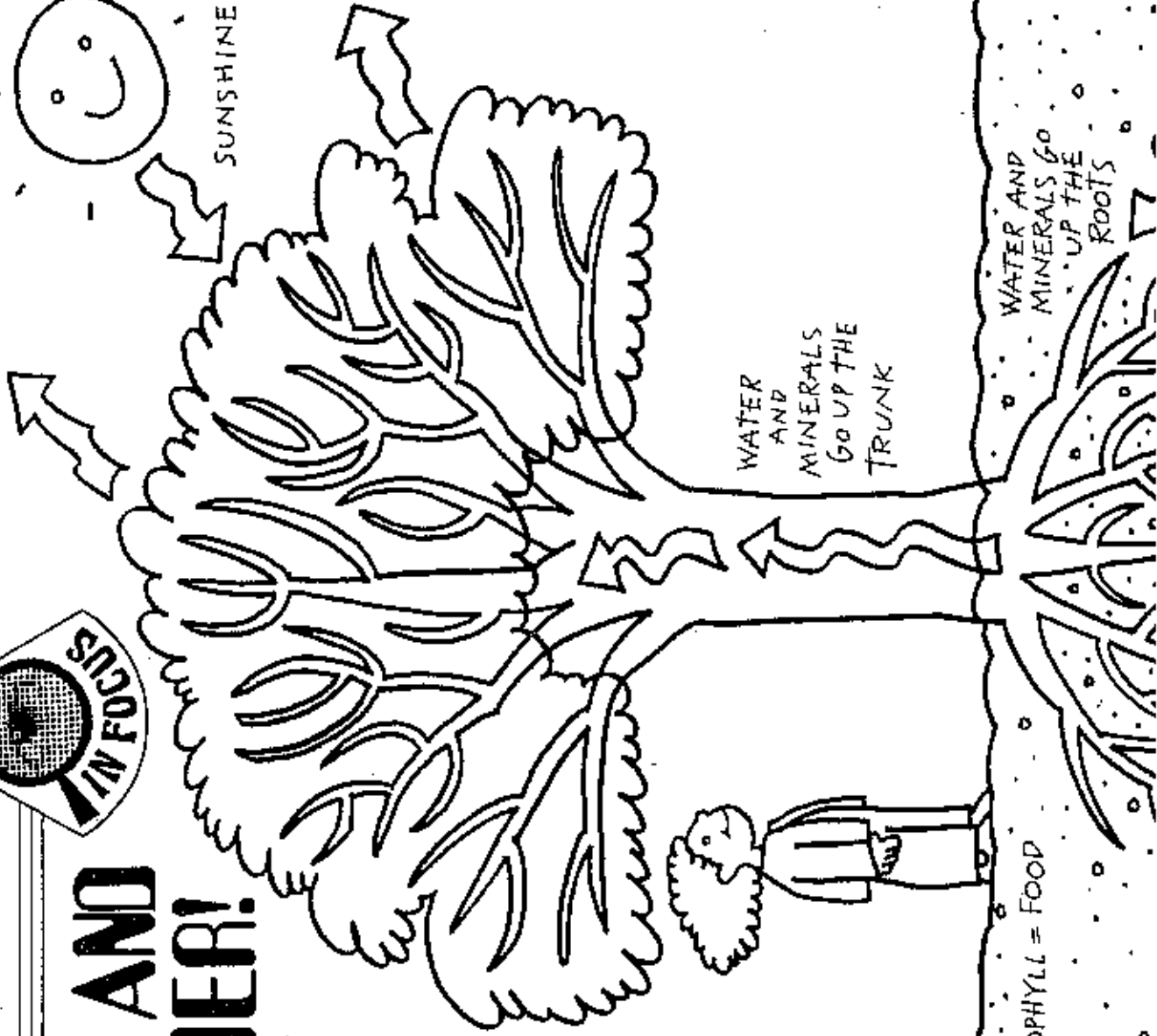
PLANT A TREE AND BREATHE EASIER!

Did you know that people everywhere need trees in order to live? That's because these natural beauties give off the life-sustaining oxygen we need to breathe. But that's not all. Trees also shade and shelter people and animals from the sun and the harsh weather. During the winter months, deer rely on trees to protect them from heavy snow and cold winds.

It's for these reasons and more that we need to protect the trees we already have and encourage them to keep on growing. So what can you do to help? Start by planting a tree from a local nursery each year on Arbor Day, which is celebrated each spring. In 1872, J. Sterling Morton persuaded the Nebraskan government to start a tree-planting program, and one million trees were planted on that first Arbor Day!



SUNSHINE



WATER AND MINERALS GO UP THE TRUNK

WATER AND MINERALS GO UP THE ROOTS

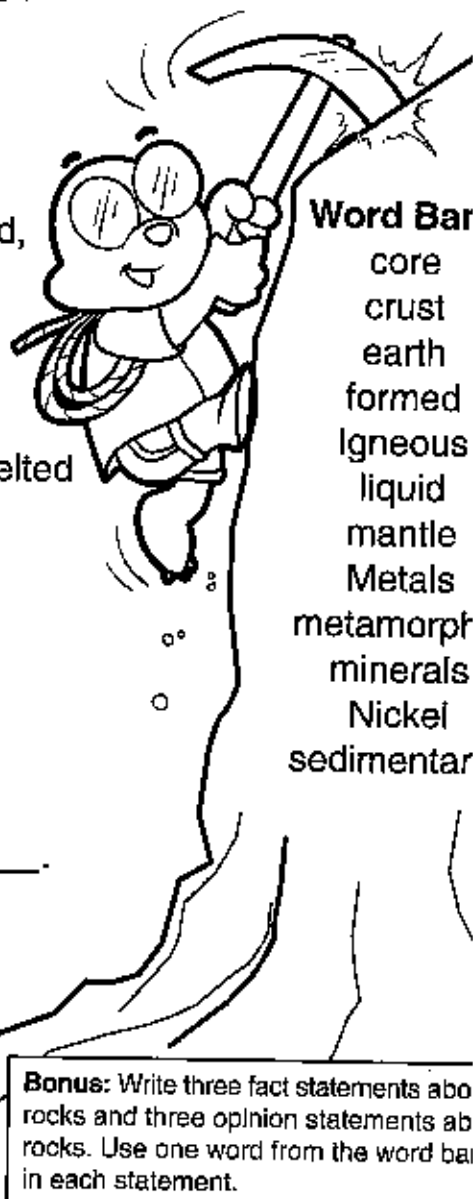
WATER + MINERALS + SUNLIGHT + CHLOROPHYLL = FOOD

Rock Talk

Write.

Use the word bank.

- Rocks are found all over the _____ 1
- The earth's _____ 2 is made up of hard, thin rock.
- The _____ 3 4 is below the crust.
- The mantle is hot, and some of the rock has melted to _____ 5 _____ 6.
- The _____ 7 8 is in the center of the earth.
- _____ 9 10 and iron can be found in the core.
- Rocks contain important _____ 11 _____ 12.
- _____ 13 such as gold and silver are minerals.
- Rocks can be _____ 14 in three different ways.
- _____ 15 _____ 16 rocks are formed when rock is melted.
- Pressure and heat form _____ 17 _____ 18 rock.
- Loose rocks, sand, and other materials settle together to form _____ 19 _____ rock.



Word Bank

core
crust
earth
formed
igneous
liquid
mantle
Metals
metamorph
minerals
Nickel
sedimentar

Bonus: Write three fact statements about rocks and three opinion statements about rocks. Use one word from the word bank in each statement.

What did the igneous rock say to the sedimentary rock?

To solve the riddle, write each letter on its matching numbered line or lines.

____ 11 ____ 8 ____ 17 ____ 1 ____ 6 ____ 19 ____ 15 ____ 12 ____ 14 ____ 9 ____ 10 ____ 16 ____ 7 ____ 13 ____ 3 ____ 2 ____ 4 ____ 18 ____ 5 ____ 10



How to...

You will need:

- Trunk, floor, wall, and canopy templates, downloaded from FamilyFun.com/funshop
- Corrugated cardboard
- Tacky glue
- 2 cardboard paper-towel tubes
- Acrylic paint
- Paintbrush

Make a Tree House

This arboreal abode is perfect for nature-loving peg dolls and fairies. For extra fun, the house has chutes instead of stairs.

- 1 Cut three trunks from the cardboard, with the corrugations running parallel to the longer sides. For strength, cut three 3- by 24-inch cardboard strips and use tacky glue to adhere each to a trunk as shown. When the glue is dry, cut two slots on each trunk as marked on the template.
- 2 Cut one 19-inch circle for the base and three 12-inch circles for the floors. Cut three slots into two of the floors. Cut a 1½-inch hole for a chute in all three floors.

- 3 Cut three wall shapes from the cardboard, keeping the corrugations vertical. Cut out windows and doors. Bend the walls to follow the curve of the floor circles. Cut the cardboard tubes in half lengthwise.

- 4 Cut three tree canopy shapes and their slots. Paint both sides of the shapes leafy green.

- 5 Assemble the tree. Slot the two middle floors into the trunks, making sure the location of the chute holes are staggered, as shown in the finished tree. Place the assembly on the base. Secure every joint with tacky glue.

- 6 Glue the top floor in place. Slot the canopy shapes onto the top floor and glue them to the trunks. Place the cardboard tube chutes with their bottoms next to a trunk. Glue the chutes to the holes and to the trunk sides. Finally, glue the walls in place.





Who Needs Dirt?

You can grow a sweet potato plant without soil.

WHAT YOU'LL NEED: toothpicks; sweet potato; glass; water

Insert 3 toothpicks around a sweet potato near the large end so they stick out to the sides in different directions. Fill a glass most of the way with water. Put the sweet potato into the glass small-end first, and rest the toothpicks on the rim so they hold up the sweet potato. There should be enough water in the glass so that about $\frac{3}{4}$ of the sweet potato is covered. Put the jar in a sunny spot for several days. Add water as needed. Soon you will have a beautiful vine growing from the top of the potato.

WHAT HAPPENED? Usually you put a plant into soil to make it grow, but you can grow some plants without soil. When the sweet potato plant was growing with its roots in the water and its leaves in the sun, it produced food through photosynthesis and the stored carbohydrates in the potato. This stored food in the sweet potato provided the energy needed to grow a new plant.