

Grade PreK



Evan-Moor®
EMC 5319

SKILL SHARPENERS

Science

PRE
K

ALIGNED TO
NEXT GENERATION
SCIENCE
AND
STATE SCIENCE STANDARDS

Connecting School and Home

Wheels Do the Work

Concept:
Wheels make
work easier.

Sing this science chant to your child
to the tune of "Wheels on the Bus." 

The wheels on my bike
Will help me go
Round and round,
Fast or slow.



rhymes and
chants

real-world
activities

science
facts

SKILL SHARPENERS

Science

PreK

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Concept: People, plants, animals, and objects have different colors.

Skills: Fine motor skills; Visual discrimination; Colors and color words; Colors

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Skills: Fine motor skills; Visual discrimination; Identify shapes

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Skills: Fine motor skills; Visual discrimination; Match to show understanding

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How to Use This Book

Teaching Your Child About Science

Science is all around us, and children are naturally curious about their world. They investigate, problem solve, experiment, and imagine new ways to do things—they are by nature little scientists! Studies show that children learn best through play and hands-on experiences. As your child asks questions about the world, you may look to science to answer some of those questions. This book will help you connect your child's real-world experiences to science concepts and vocabulary.

The lessons in this book provide information and activities about physical, life, and earth science.

Chants and Rhymes

Read or sing the chants and rhymes to your child. Then read or sing them with your child, encouraging him or her to repeat after you. Help your child make meaning of the pictures and the words and connect what he or she is hearing and seeing to the real world.

Note: If you are not familiar with the tunes the chants are sung to, you can listen to many of the songs at the National Institute of Environmental Health Sciences website at <http://kids.niehs.nih.gov/games/songs/childrens/index.htm>.

Talk with Your Child

Talking with your child about the chants, rhymes, and activities is an important part of your child's learning process. Use the "Talk with Your Child" suggestions to help guide your conversations and reinforce science vocabulary and concepts.

Talk with Your Child

Explain to your child that thin words in the chant to compare to describe things in the world.



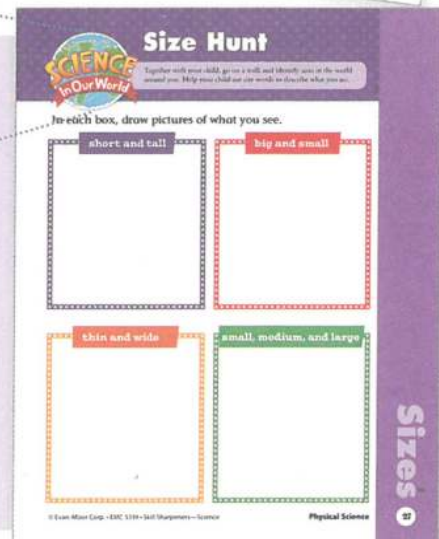
Activities

The engaging written practice activities invite your child to demonstrate understanding of the science vocabulary and concepts introduced in the chants and rhymes. In addition, the activities provide practice with reading readiness, fine motor skills and directionality, visual discrimination, and other important basic skills your child needs to be successful in school.



Science in Our World

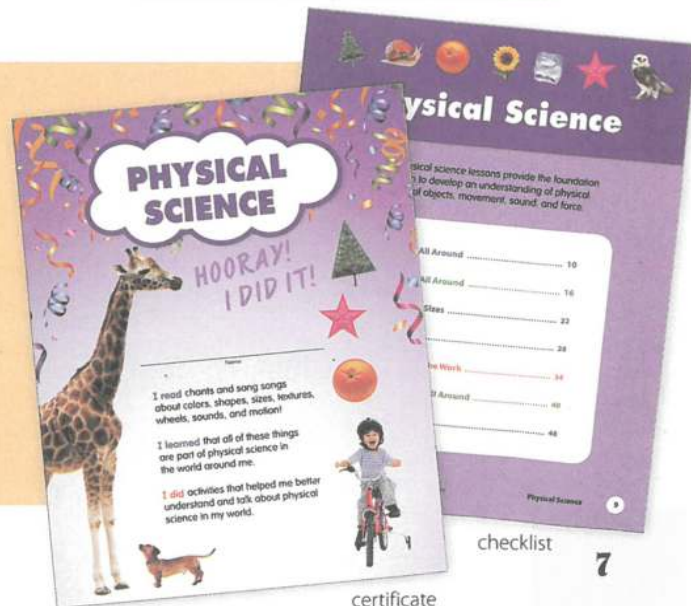
These hands-on, real-world activities help you and your child connect the science concepts to your everyday lives. Providing meaningful science experiences will help your child better understand his or her environment, learn how to collect and organize information, and acquire basic scientific understandings that build a solid foundation for his or her future.



Certificates and Checklists

As your child completes each science domain, remove the certificate from the book (pages 52, 102, and 134) have your child write his or her name on it, and post the certificate in a prominent place.

Have your child use the checklists at the beginning of Physical Science, Life Science, and Earth Science to keep track of each unit he or she completes.





Physical Science

These physical science lessons provide the foundation for children to develop an understanding of physical properties of objects, movement, sound, and force.

- ☐ **Colors All Around** 10
- ☐ **Shapes All Around** 16
- ☐ **Different Sizes** 22
- ☐ **Feel It** 28
- ☐ **Wheels Do the Work** 34
- ☐ **Sounds Are All Around** 40
- ☐ **I Move Things** 46

Concept:

People, plants, animals, and objects have different colors.

Colors All Around

Read this science chant to your child.

Purple,



yellow,



red,

and green.



And every color
in between.

Orange,



black,

blue,



and brown.

**I see colors
all around!**

Talk with Your Child

Explain to your child that things in the world around you have different colors. People, plants, animals, and objects all have colors. Together with your child, point out the color of objects found indoors and outdoors.

Skills:

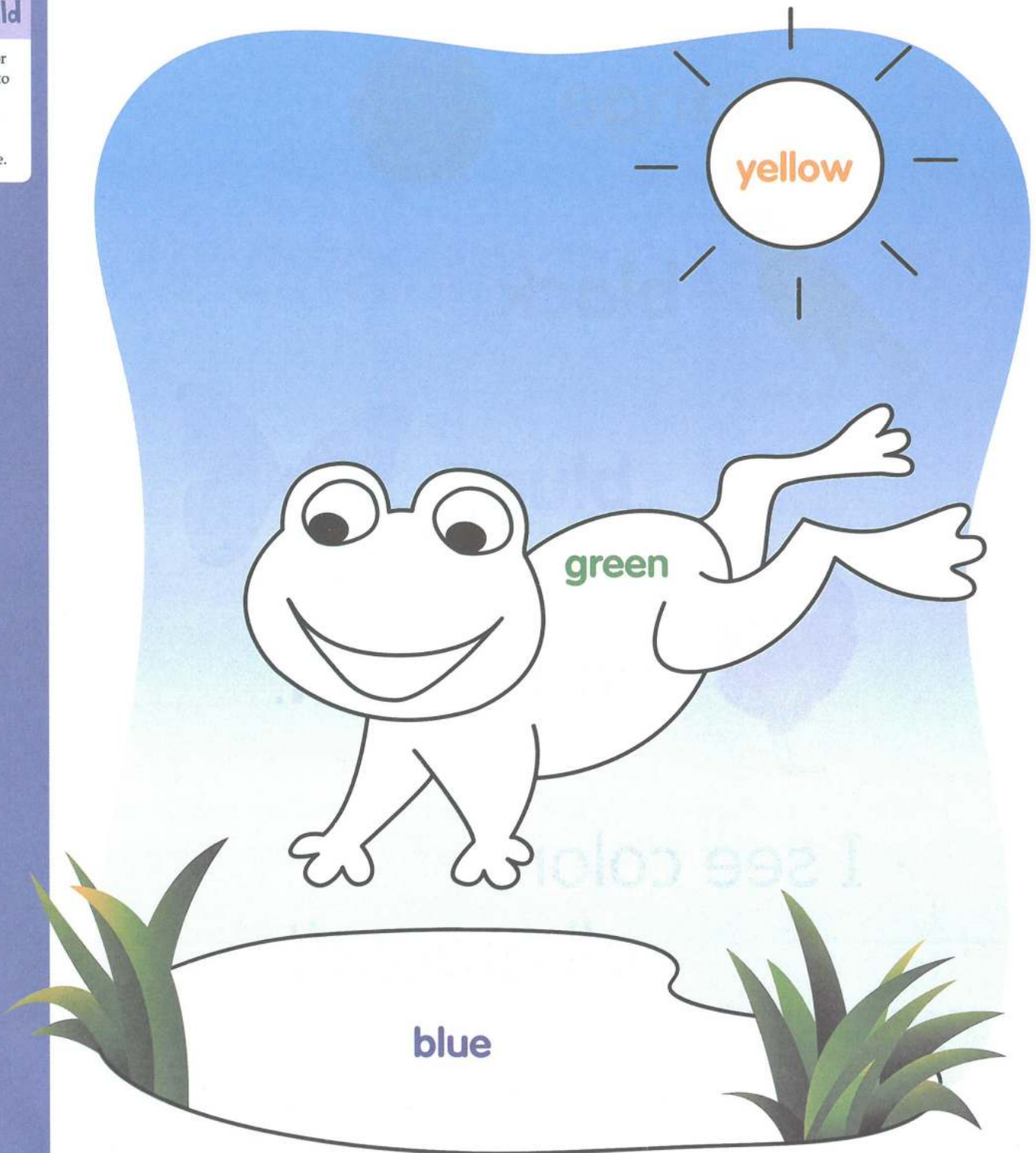
Fine motor skills; Visual discrimination; Colors and color words

Talk with Your Child

Read the color words aloud to your child. Point out the colors in the outdoor scene.

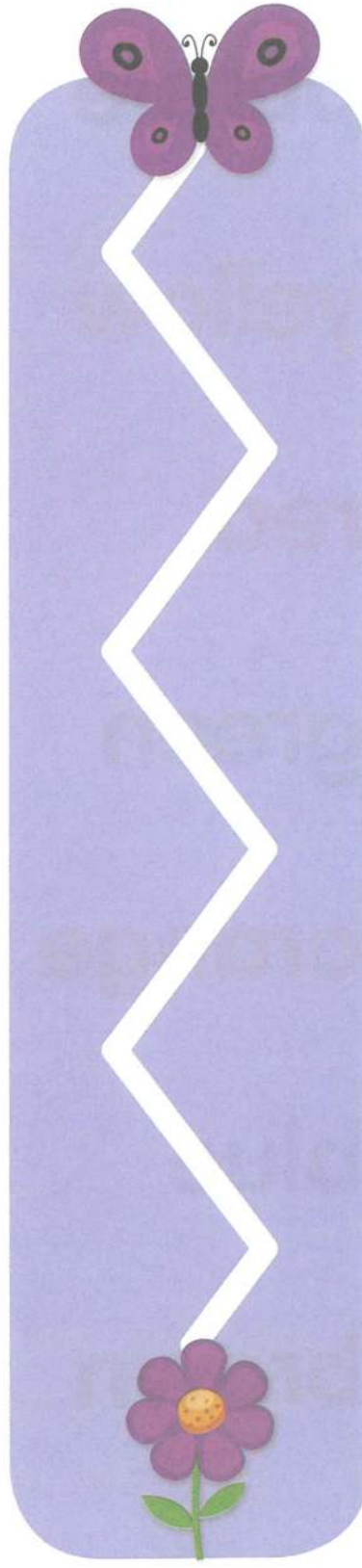
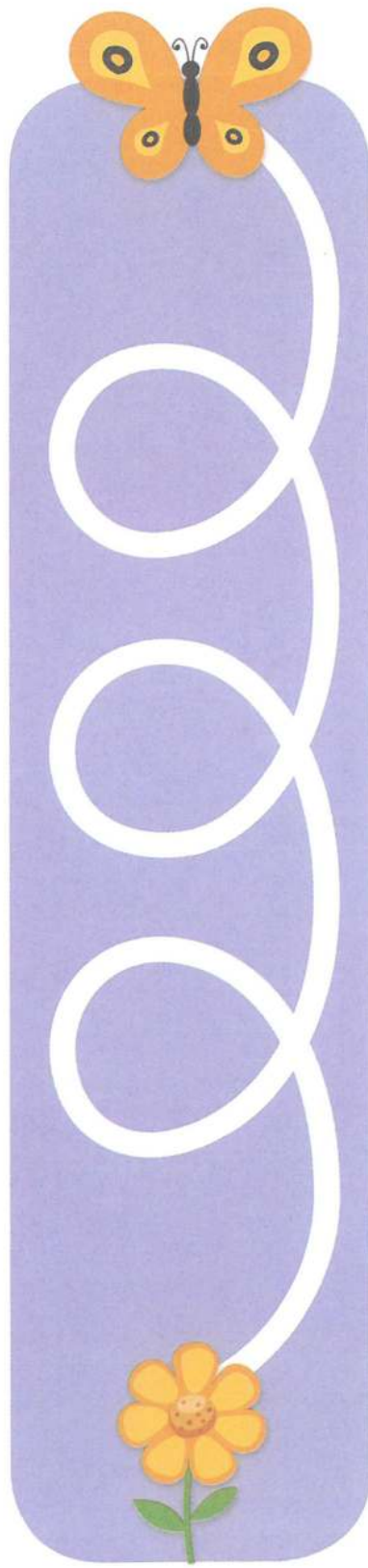
Hoppy Frog

Color.



In the Garden

Help each butterfly get to the flower with the same color.



Skills:

Fine motor skills; Colors

Talk with Your Child

Have your child name the colors of the butterflies and flowers.

Skills:

Fine motor skills; Visual discrimination; Colors and color words

Color Match

Draw a line to match.

purple

yellow

red

green

orange

blue

brown





Color Hunt

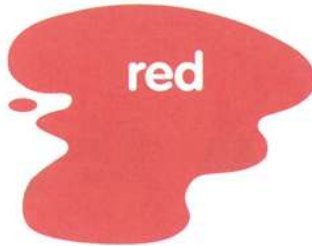
Together with your child, go outdoors on a color hunt. Talk about the colors you see in nature. Also talk about the colors you see in things that people made.

Check  each color that you see. Write where you see the color.

☐

☐

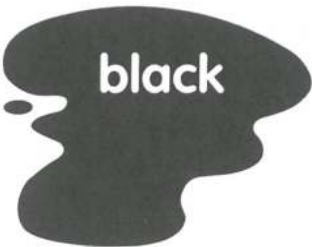
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Concept:

People, plants, animals, and objects have different shapes.

Shapes All Around

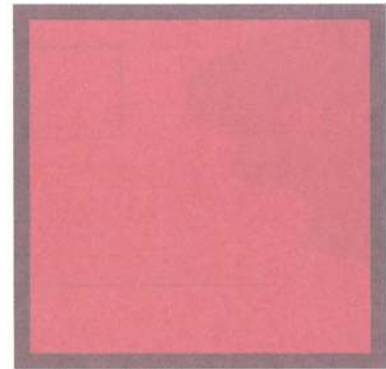
Read this science rhyme to your child.

A shape with 4 sides

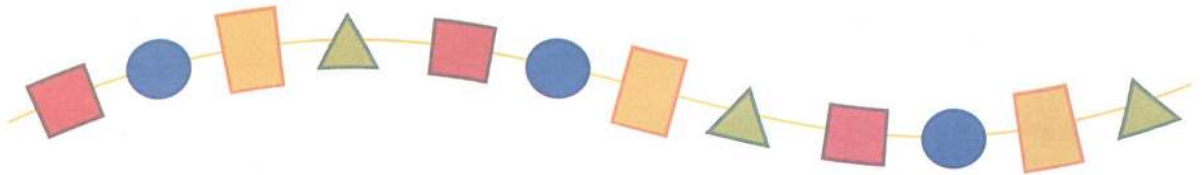
All the same.

Point to it and

Say its name.



square



circle

This shape is round.

It has no end.

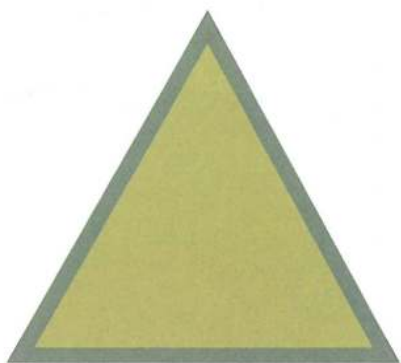
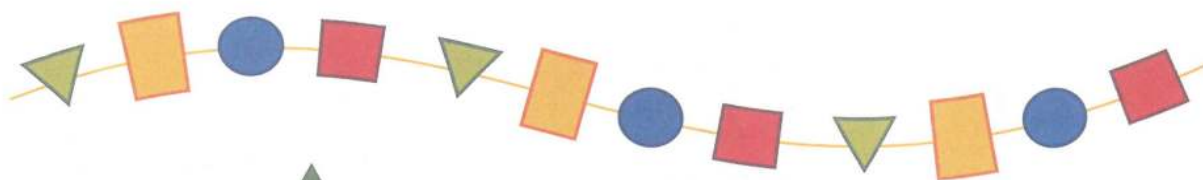
What is this one?

Tell me, friend.

Two sides short.
Two sides long.
Say its name.
You can't go wrong.



rectangle



triangle

Last, a shape
That has 3 sides.
It seems to point
Up to the skies.

Talk with Your Child

Explain to your child that things in the world around you have different shapes. Together with your child, point out shapes you see in the world around you.

Skills:

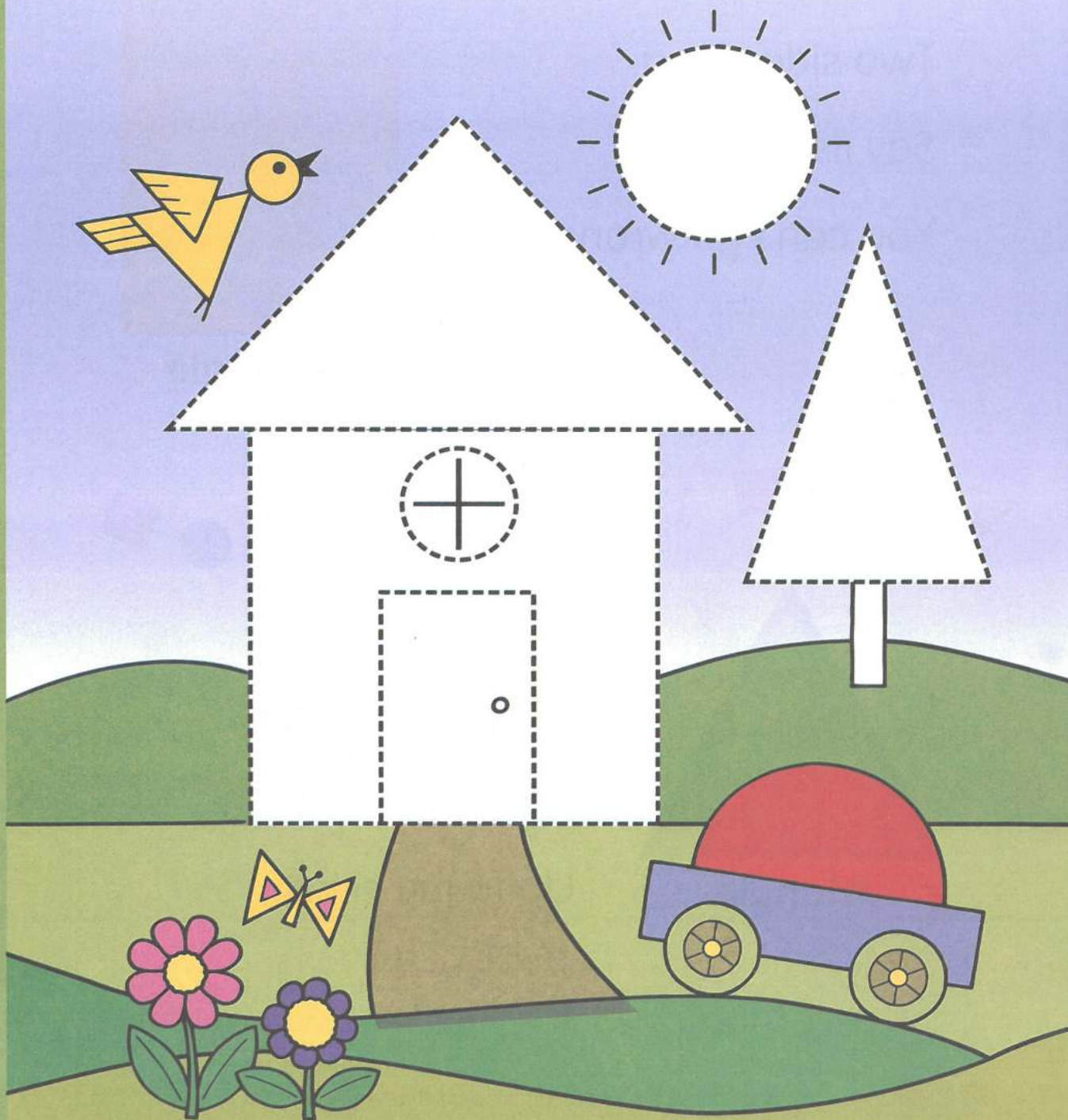
Fine motor skills; Visual discrimination; Identify shapes

Talk with Your Child

Ask your child to point to each shape in the picture and name it. Then see if your child can find any of these shapes in your house or yard.

4 Shapes

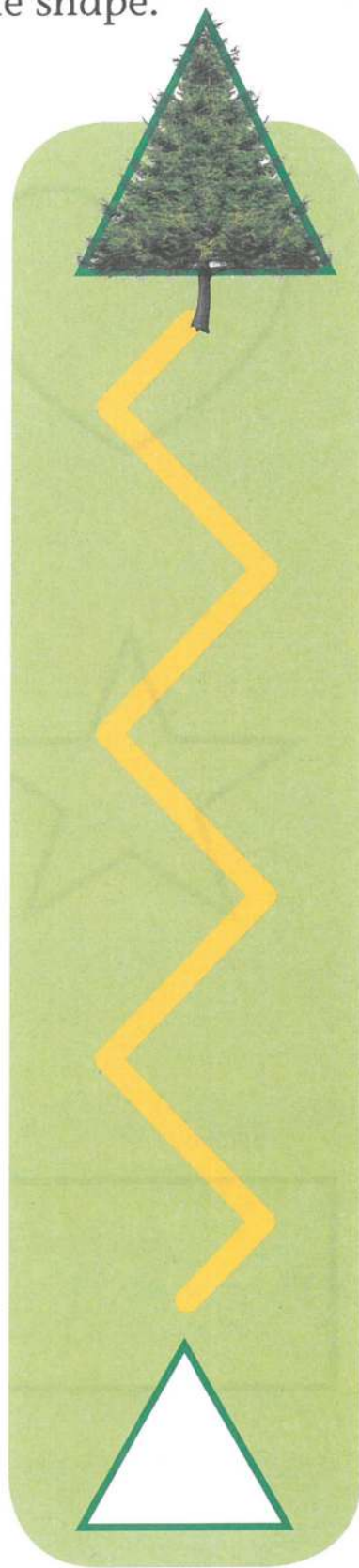
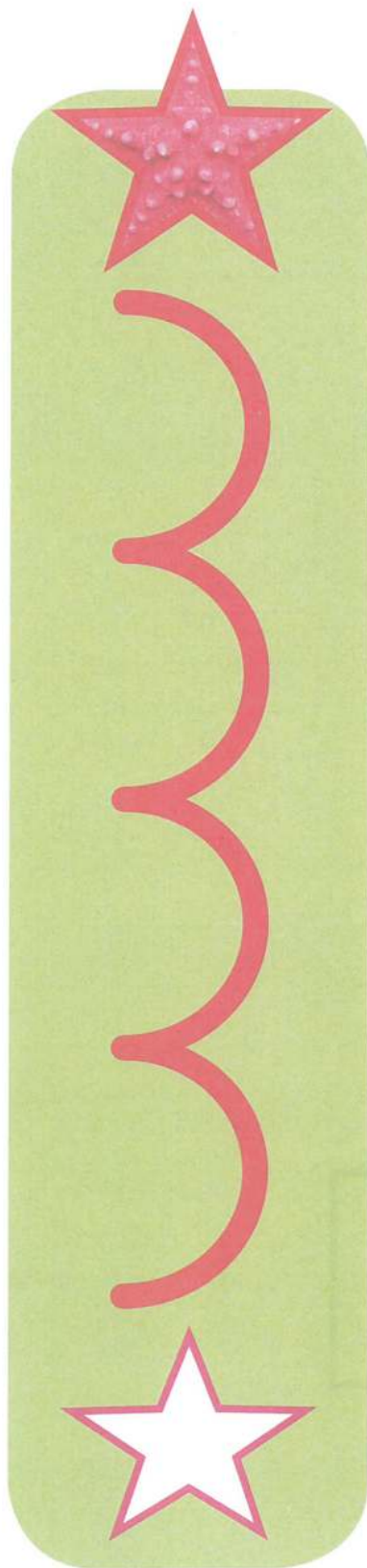
Find the shapes. Trace them. Color the picture.



Shapes

Shapes in Nature

Trace to match the shapes. Then color the shape.



Skills:

Fine motor skills; Visual discrimination; Identify shapes

Talk with Your Child

Have your child name each shape. Talk about other objects that have the same shape.

Skills:

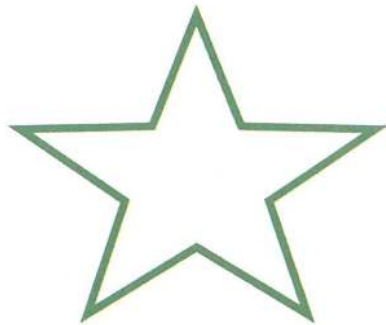
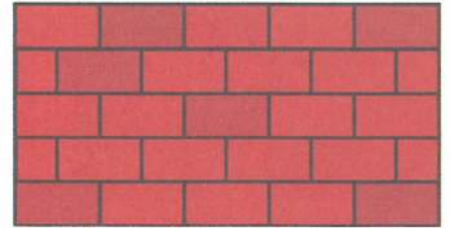
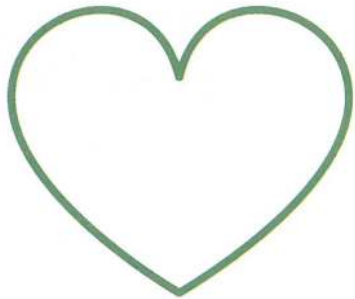
Fine motor skills; Visual discrimination; Identify shapes

Talk with Your Child

Have your child name each shape. Talk about other objects that have these shapes.

More Shapes

Draw a line to match the shapes.

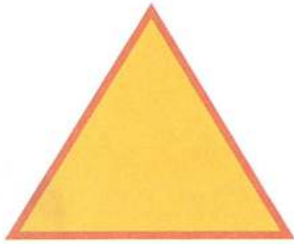


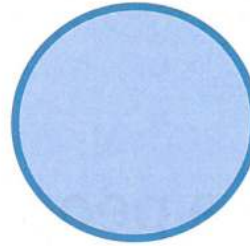


Shape Hunt

Together with your child, look for these shapes in your house or outdoors. Help your child identify shapes in the real world.

Write where you see these shapes.













Concept:

Things have
different sizes.

Different Sizes

Read this science chant to your child.

The world is full of fun surprises.
I see many different sizes.

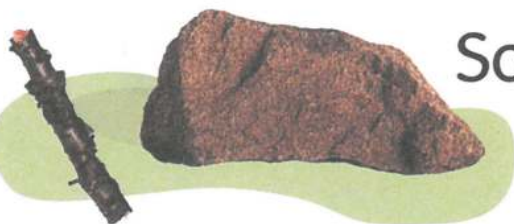
Some people are short;
some people are tall.



Some birds are big;
some birds are small.



Some things are thin;
some things are wide.



Look around the world to see
what sizes you can find!



Talk Your Child

Explain to your child that things in the world around us are different sizes. Use the size words in the chant to compare yourself to your child. Help your child use size words to describe things in the world around you.

Skills:

Fine motor skills; Visual discrimination; Identify sizes

Big and Small

Draw a line to **big** or **small**.



big



small

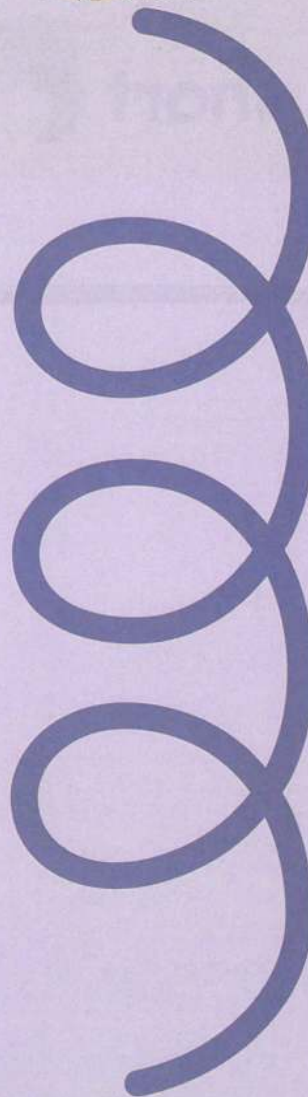


Small, Medium, Large

Trace to match the birds with the nests.

Skills:

Fine motor skills; Visual discrimination; Identify sizes



Skills:

Fine motor skills; Draw to show understanding

Talk with Your Child

Help your child think of animals that are short or tall. Have your child describe what the animals look like.

Short and Tall

Draw **short** and tall **animals**.



short



tall

short

tall



Size Hunt

Together with your child, go on a walk and identify sizes in the world around you. Help your child use size words to describe what you see.

In each box, draw pictures of what you see.

short and tall

big and small

thin and wide

small, medium, and large

Sizes

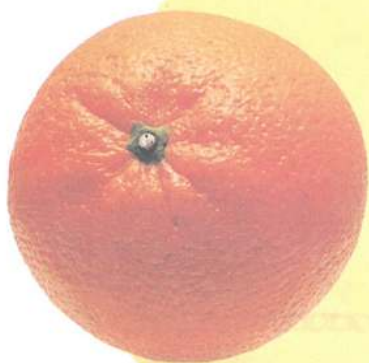
Concept:

Things have different textures.

Feel It

Read this science rhyme to your child.

Things have textures.
It's how they feel.



Like a bumpy
orange peel.

Or a bunny's
furry tail.



Or a snail's
slimy trail.



Some things feel rough
like grains of sand.



Feel the textures
with your hand.



Talk with Your Child

Explain to your child that you can feel the texture of something when you touch it. Guide your child to feel textures of things around the house and outside. Help your child use describing words to talk about what he or she feels.

Skills:

Fine motor skills; Visual discrimination; Identify textures

Talk with Your Child

Help your child think of other animals or objects that feel soft or hard.

Soft and Hard

Draw a line to **soft** or **hard**.



soft



hard

Happy Trails

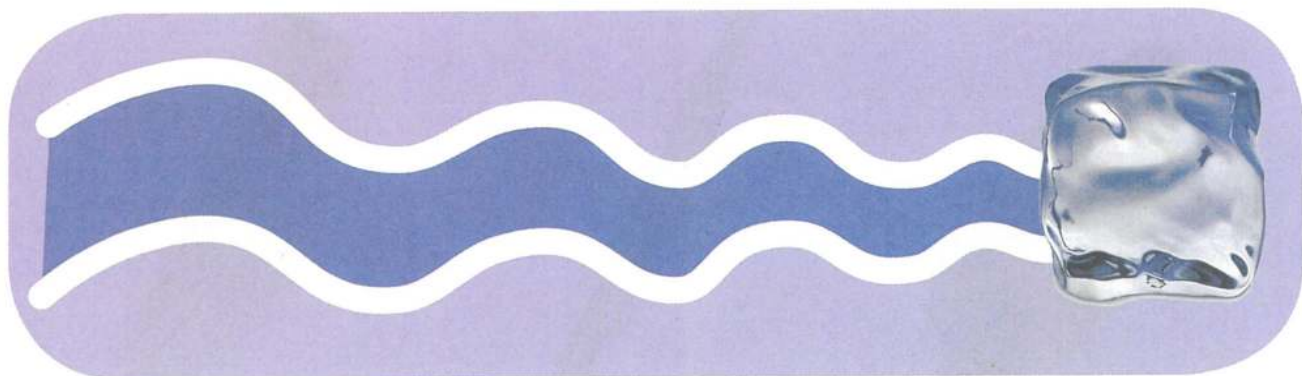
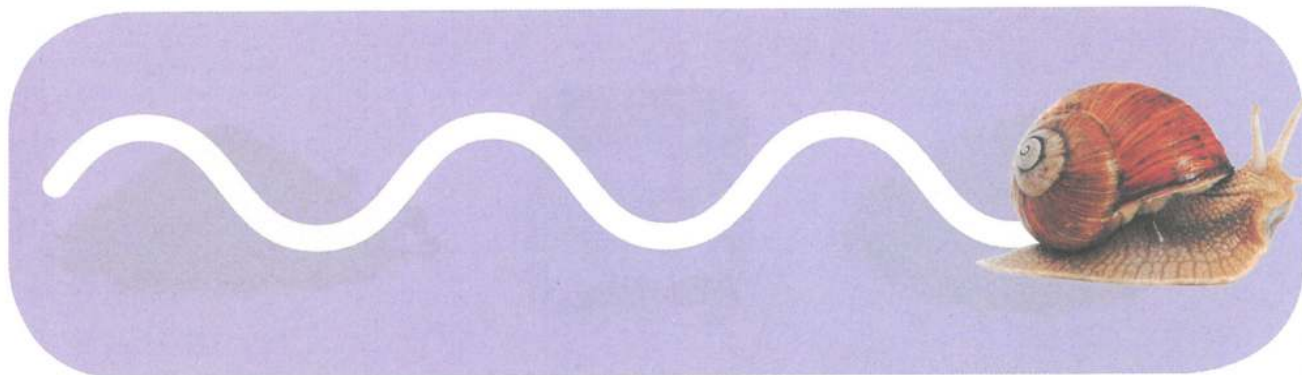
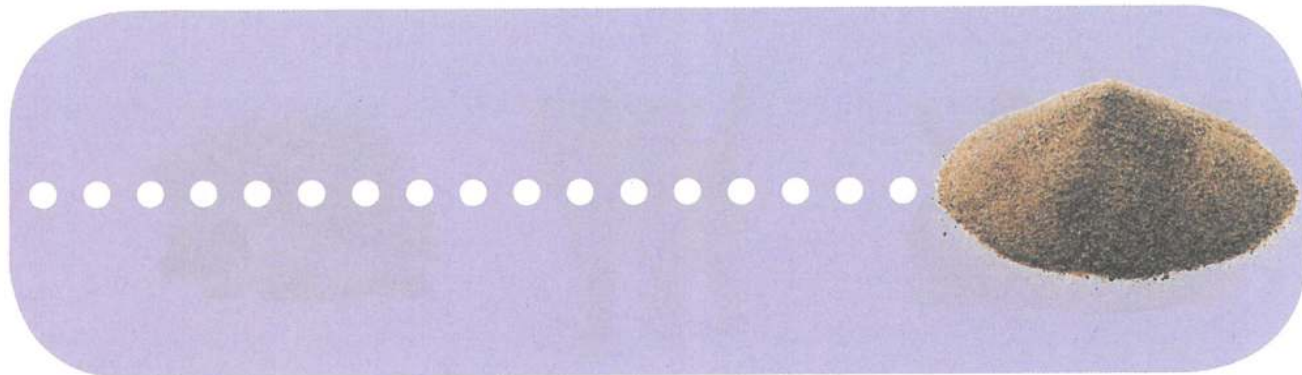
Trace the grainy, slimy, and watery trails.

Skills:

Fine motor skills; Visual discrimination; Identify textures

Talk with Your Child

Collect some sand, an ice cube, and if possible, a snail. Have your child feel the texture of each. Then return the snail to its home.



Textures

Skills:

Fine motor skills; Visual discrimination; Identify textures

Talk with Your Child

Help your child use describing words to tell about the texture of each item pictured.

It Feels Different

Circle the one that has a different texture.

1



2



3





Texture Hunt

Help your child feel textures in the world around you. Read the words below aloud and go on a hunt to find objects with the named texture.

Draw a picture of what you feel.

bumpy

soft

furry

slimy

rough

hard

Textures

Concept:

Wheels make
work easier.

Wheels Do the Work

Sing this science chant to your child
to the tune of "Wheels on the Bus."



The wheels on my bike
Will help me go
Round and round,
Fast or slow.



The wheels on my board
Will help me go
All through the town.

Wheels do the work
From here to there,
On a toy
Or on a chair.



Wheels do the work
From here to there
All through the town.

Talk with Your Child

Explain to your child that wheels help make work easier for people. Think about the things you use that have wheels. Talk about how they help make work easier for your family.

Skills:

Fine motor skills; Visual discrimination; Match to show understanding

Talk with Your Child

Look at the pictures in the left column. Discuss how the objects in the right column help make work easier.

Wheels Help Us Move

Draw a line to match.



Wheels Go Round

Trace the wheels.



Skills:

Fine motor skills; Visual discrimination

Wheels

Skills:

Fine motor skills; Visual discrimination; Match to show understanding

Talk with Your Child

Look at the pictures in the left column. Discuss how the objects in the right column help make work easier.

Wheels Help Us Work

Draw a line to match.





Wheels at Home

Together with your child, look around your house for items that have wheels. Talk about how each item is used. Have your child tell you how the wheels make the work easier.

Write a check ✓ next to each item you find at home.

☐☐☐☐

Draw!

Draw something you use that has wheels.

Concept:

Sounds are all
around.

Sounds Are All Around

Read this science rhyme to your child.

Sounds are all around,
in the air and
on the ground.

A chirping bird,
A spoken word.





A plane whizzing by,
A baby's soft cry.

Listen with your ear
and you will hear
sounds all around.



Talk with Your Child

Sit with your child indoors or outdoors and listen to the sounds in the world around you. Talk about which sounds are made by nature, which sounds are made by people, which sounds are made by animals, and which sounds are made by machines or technology that people created.

Skills:

Fine motor skills; Visual discrimination; Draw to show understanding

Talk with Your Child

Together with your child, imitate the pictured sounds.

Animal Noises

Draw an **X** on the one that is not an animal sound.

1



2



3



Loud and Soft

Skills:

Fine motor skills; Visual discrimination; Draw to show understanding

Draw an **X** on the pictures of sounds you think are **loud**.
Circle the pictures of sounds you think are **soft**.

1



2



3



Skills:

Fine motor skills; Visual discrimination; Draw to show understanding

Indoor & Outdoor Sounds

Underline the **indoor** sounds.
Circle the **outdoor** sounds.





Outdoor Sounds

Together with your child, listen to outdoor sounds. Identify which sounds are from nature or animals and which sounds are man-made.

Go outside. Listen quietly for 3 minutes.
Check ☒ each sound you hear.

☐☐☐☐☐☐

What was the loudest sound?

What was the quietest sound?

Concept:

People apply
force to move
objects.

I Move Things

Read this science rhyme to your child.

*I move things
in different ways.*



I push a ball
to the ground.
It will bounce
up and down.



I throw a ball
way up high.
It will move and
seem to fly.



I hit a ball
with a bat.
It will move
in no time flat.



I can move things
using force.
I can move things.
Yes, of course!



Talk with Your Child

Explain to your child that people can make objects move in different ways. Together with your child, push, pull, roll, throw, and bounce objects around your house. Explain that when people apply force to an object, we make it move.

Skills:

Fine motor skills; Visual discrimination; Match to show understanding

Talk with Your Child

Point out the shape of each object. Talk about how the shape helps us know how the object will move when force is applied to it.

Move It!

Draw a line to match.

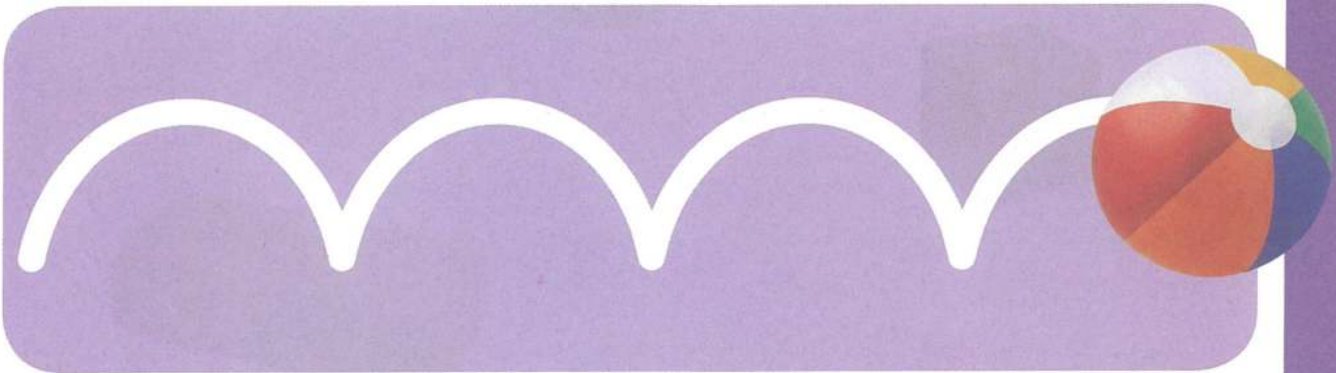
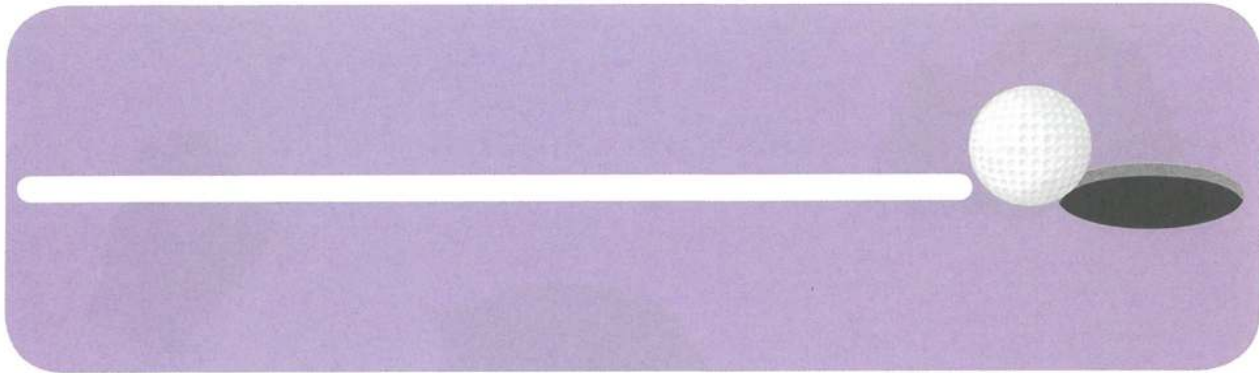


Bounce and Roll

Skills:

Fine motor skills; Visual discrimination

Trace the path of each ball.



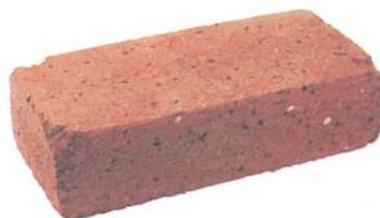
Motion

Skills:

Fine motor skills; Visual discrimination; Draw to show understanding

Will It Roll?

Circle the things that will roll if you push them.



Move Things at Home



Together with your child, test different ways to make a ball move. Roll the ball on the ground, hit a ball with a bat, push a ball across the floor, and throw a ball up into the air. Then help your child apply force to other objects to see how he or she can make things move.

Draw pictures that show how you can make things move.

I pushed a _____.

I threw a _____.

I rolled a _____.

I hit a _____.

PHYSICAL SCIENCE

HOORAY!
I DID IT!

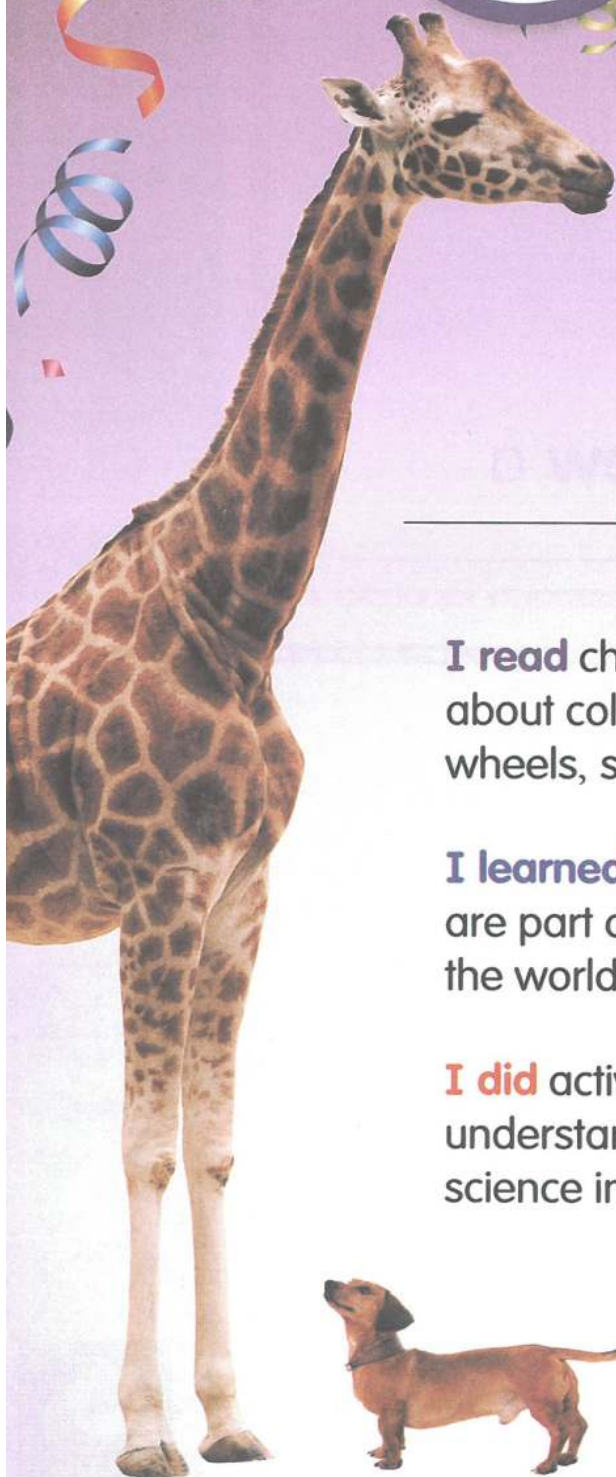


Name

I read chants and sang songs
about colors, shapes, sizes, textures,
wheels, sounds, and motion!

I learned that all of these things
are part of physical science in
the world around me.

I did activities that helped me better
understand and talk about physical
science in my world.





Life Science

These life science lessons provide the foundation for children to develop an understanding of living things, body parts, plant parts, animal parts, and animal homes.

| | |
|---|----|
| <input type="checkbox"/> Living Things | 54 |
| <input type="checkbox"/> Living Things Have Basic Needs | 60 |
| <input type="checkbox"/> My Five Senses | 66 |
| <input type="checkbox"/> Parts of a Plant | 72 |
| <input type="checkbox"/> We Eat Plants | 78 |
| <input type="checkbox"/> Wings and Claws | 84 |
| <input type="checkbox"/> Babies to Love | 90 |
| <input type="checkbox"/> Animal Homes | 96 |

Concept:

Living things
grow and
change.

Living Things

Sing this science chant to your child to the tune of "If You're Happy and You Know It."



Living things
change and grow,
Don't you know!

Living things
change and grow,
Don't you know!





Living things
change and grow.
You were little
Long ago.



Living things
change and grow,
Don't you know!

Talk with Your Child

Explain to your child that people, plants, and animals are living things that grow and change. Talk about how your child has grown and changed. Point out how the animals or plants in the world around you have grown and changed.

Skills:

Interpret
information
from pictures;
Color to show
understanding;
Fine motor skills

Talk with Your Child

Help your child
decide if the
pictures show
living or
nonliving
things.

Living or Nonliving?

Color the ☺ if it is living.
Color the ☹ if it is not living.



Grow and Change

Draw a line to match.

Skills:

Fine motor skills; Visual discrimination; Match to show understanding

Living or Nonliving?



Skills:

Interpret
information
from pictures;
Draw to show
understanding;
Fine motor skills

Living Things

living



Circle the living things.



Living or Nonliving?



Nature Hunt

Together with your child, go on a scavenger hunt for living things you see in nature. Talk about how each living thing grows and changes.

Draw a picture of living things you find.

insect

bird

tree

grass

I found a...

Living or Nonliving?

Concept:

People, plants, and animals need air, food, and water.

Living Things Have Basic Needs

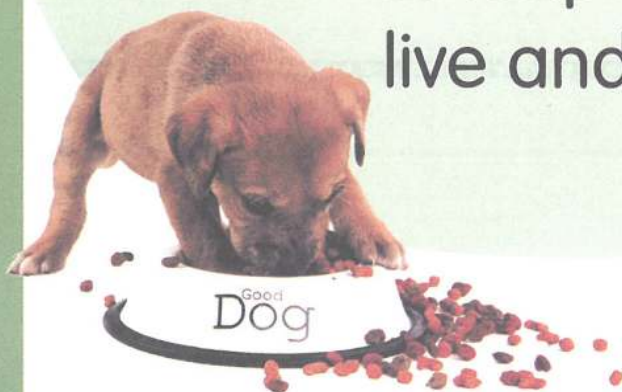
Sing this science chant to your child to the tune of "Mary Had a Little Lamb."



Living things
have basic needs,
basic needs,
basic needs.



Living things
have basic needs
to help them
live and grow.





People need
food to eat,
water, and
a good night's sleep.

People have
basic needs
to help them
live and grow.



Talk with Your Child

Explain to your child that all living things have basic needs. Plants need sun, soil, and water. People and animals need air, food, water, and sleep. Help your child recognize how his or her basic needs are met each day.

Skills:

Interpret
information
from pictures;
Color to show
understanding;
Fine motor skills

Talk with Your Child

Help your child
decide if the
pictures show
something a
bird needs to
live and grow.

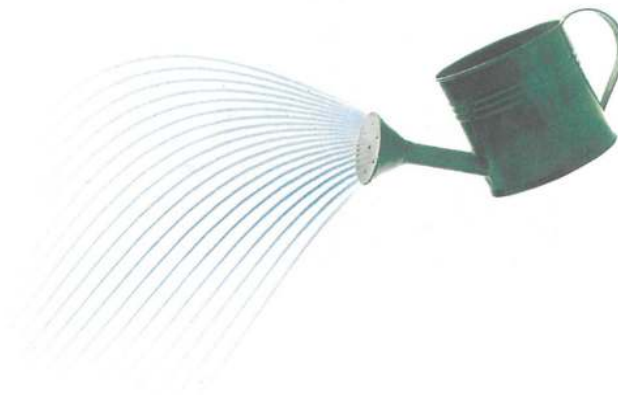
What a Bird Needs

Color the ☺ if the bird needs it.
Color the ☹ if it does not.



What Things Need

Draw a line to match.



Skills:

Fine motor skills; Visual discrimination; Match to show understanding

Talk with Your Child

Look at the pictures in the left column. Discuss why the people, plants, and animals need the things in the right column.

Basic Needs

Skills:

Interpret
information
from pictures;
Draw to show
understanding;
Fine motor skills

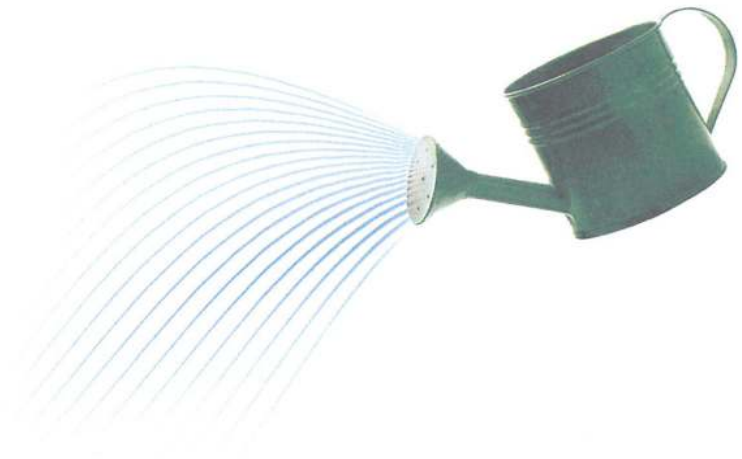
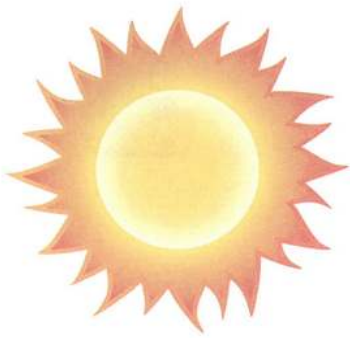
Talk with Your Child

Help your child
identify the
things plants
need to live and
grow: water,
sunlight, and
soil.

A Plant's Needs

Circle the things that a plant needs.

plant



Animal Observations



Together with your child, observe a household pet or an animal living in the wild. Help your child talk about how the animal is meeting its basic needs.

Draw an animal getting food or water.
Draw an animal sleeping.

Animal getting food or water

Animal sleeping

Basic Needs

Concept:

Our five senses help us explore the world.

My Five Senses

Read this science rhyme to your child.

The apple is red.
I **see** that.

It **feels** smooth—
pat, pat, pat.



When I bite, I **hear**—
crunch, crunch, crunch.



It **tastes** sweet—
munch, munch, munch.



I **smell** spices.
I know why.



Dad is baking
an apple pie!



Talk with Your Child

Explain to your child that people have five senses that help them know about the world around them. Have your child point to each body part and tell which sense it has: Eyes can see, ears can hear, mouth can taste, nose can smell, and hands can touch.

Skills:

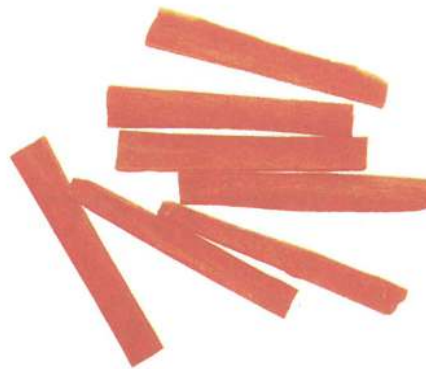
Interpret information from pictures; Color to show understanding; Fine motor skills

Talk with Your Child

Talk about the foods your child likes to eat. Help your child describe the tastes and textures of the foods.

It Tastes...

Color the 😊 if you like it.
Color the ☹️ if you do not.

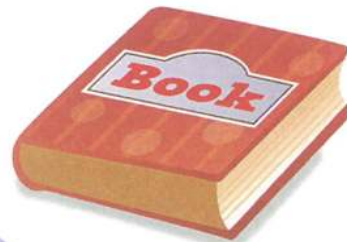


My Body

Skill:

Draw to show understanding

Draw lines from the objects to the boy's body parts to show what senses he uses.



Parts of the Body

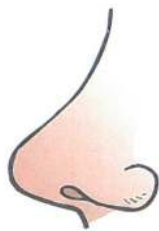
Skills:

Interpret information from pictures;
Draw to show understanding;
Fine motor skills

Five Senses

Look at the body part in each row. Which sense does it help you use? Circle the items you can experience using that sense.

1



2



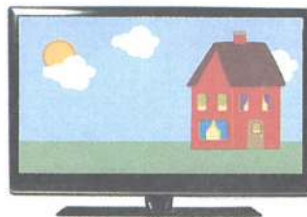
3



4



5





I Use My Five Senses





Together with your child, talk about how you use your senses. Help your child use describing words to talk about tastes, smells, sights, sounds, and textures.


Draw pictures of yourself using each of your five senses.

smell 

hear 

touch 

taste 

see 

Concept:

Plants have parts
that help them
grow.

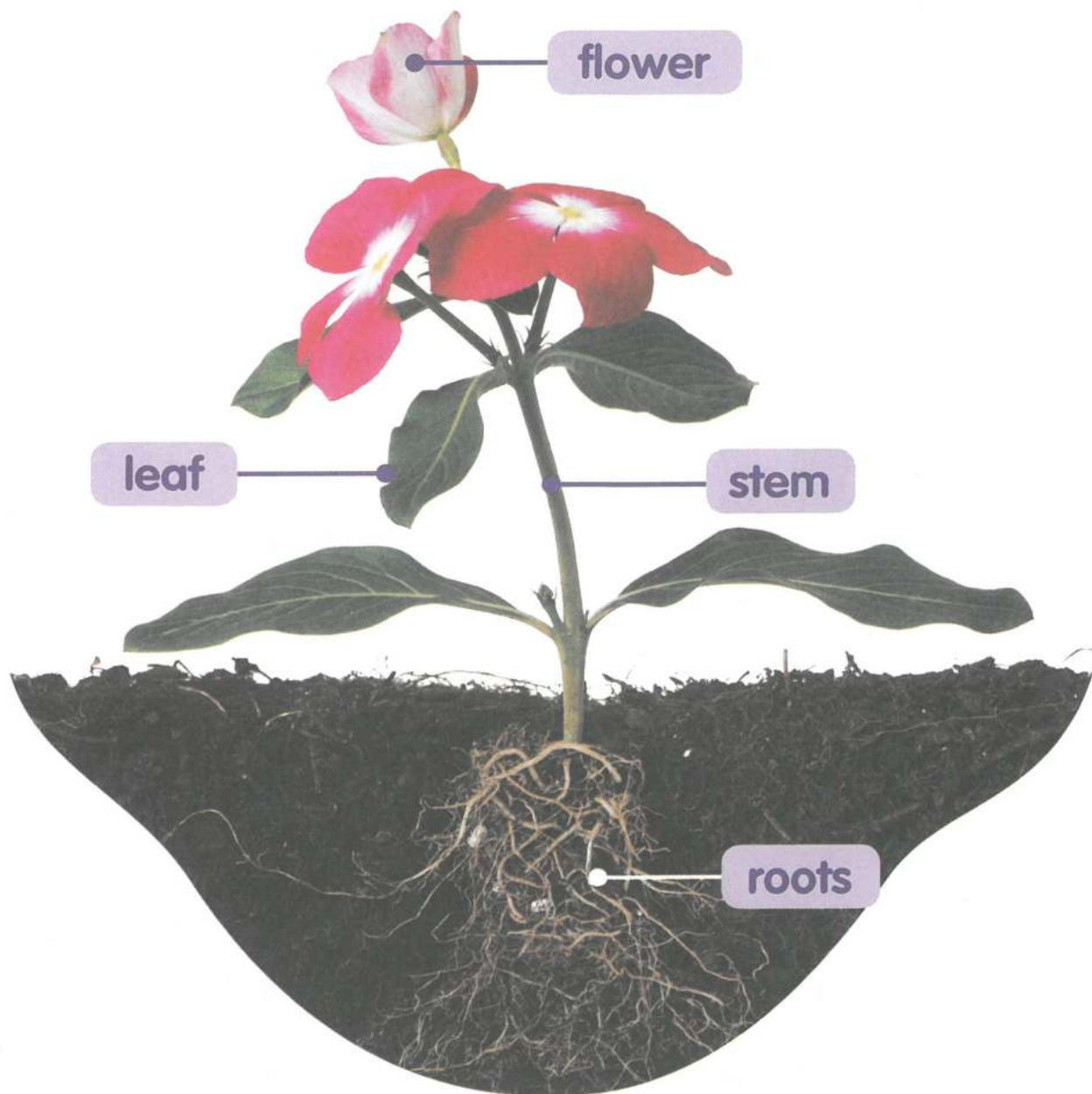
Parts of a Plant

Read this science rhyme to your child.

A plant has parts.
Can you name them?
A leaf and roots,
A flower and stem.

Above the soil
And down below,
Each part helps
The plant to grow!





Talk Your Child

Together with your child, name each plant part as you point to it. Then find a plant and look at its flowers, leaves, and stem. Explain to your child that a plant's roots help it get water and nutrients, or vitamins, from the soil.

Skills:

Draw to show understanding;
Fine motor skills

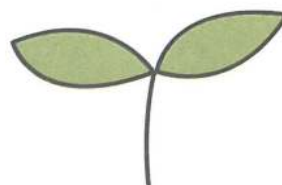
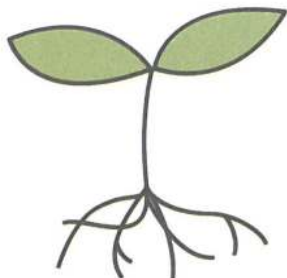
Talk with
Your Child

Help your child
name the
missing plant
parts.

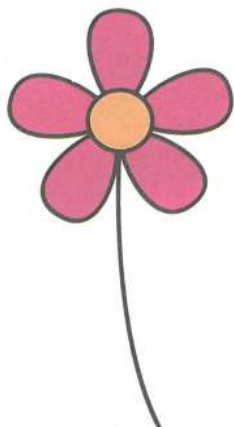
Missing Plant Parts

Draw the missing parts.

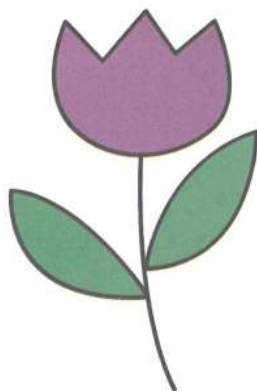
1



2



3



Match the Parts

Draw a line to match.



Skills:

Fine motor skills; Visual discrimination; Match to show understanding

Talk with Your Child

Explain that each of these plant parts look different, but some things about them are the same.

Plant Parts

Skills:

Fine motor skills; Visual discrimination; Draw to show understanding

Talk with Your Child

Explain to your child that plants, like people, have the same parts, but those parts can look different from one another.

Same Plant Parts

Draw an **X** on the plant part that is different.

1



2



3





Grow a Bean Plant

Together with your child, grow a bean plant. Help your child identify the plant parts and tell how they help the plant get what it needs to live and grow.

Grow your own bean plant.

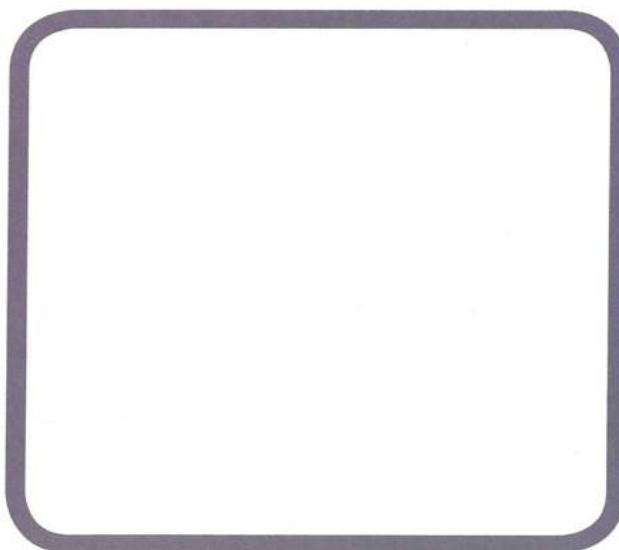
- 1 Put a wet paper towel in a cup. Add 2 bean seeds.



- 2 Place the cup in a sunny spot. Water a little every day.



Draw the roots in the box.



- 3 In a few days, you will see roots! Plant the roots in some soil. Water and watch your plant grow.

Concept:

We eat
different
plant parts.

We Eat Plants

Read this science rhyme to your child.

Oats, peas, beans,
and pumpkin **seeds**.

These are plant parts
that we need.

Cabbage, spinach,
lettuce, kale.

Leaves of plants
are dark or pale.

Many **fruits**
grow on trees.
Peaches, cherries,
all of these.



Apples, oranges,
purple plums.

I like fruits...

Yum, yum, yum!

Celery and

asparagus,

Stems of plants

Are good for us!



Talk with Your Child

Talk with your child about the fruits and vegetables your family eats. Discuss which plant part each of these fruits and vegetables are. Help your child identify his or her favorite plant parts to eat.

Skills:

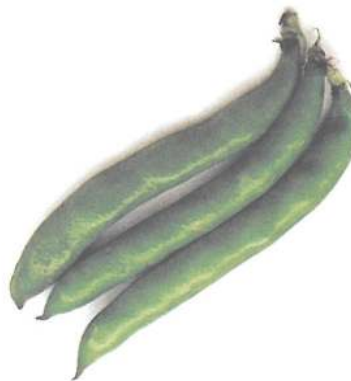
Interpret
information
from pictures;
Color to show
understanding;
Fine motor skills

Talk with Your Child

Talk about the
fruits and
vegetables your
child likes to
eat. Help your
child describe
the tastes and
textures of the
foods.

Do You Like It?

Color the 😊 if you like to eat the plant part.
Color the ☹️ if you do not like it.



Fruit, Root, Seed, or Leaf?

Draw a line to match.



fruit



root



seed



leaf



Skills:

Interpret information from pictures; Match to show understanding; Fine motor skills

Talk with Your Child

Help your child identify plant parts that are the same. Then think of additional fruits and vegetables that you and your family eat.

Plant Parts We Eat

Skills:

Interpret
information
from pictures;
Draw to show
understanding;
Fine motor skills

Fruits and Vegetables

Draw an **X** on the plant part that does not belong.

1



2



3





Good to Eat

Together with your child, discuss the plant parts you eat. Encourage your child to tell you which fruits and vegetables are favorites.

Circle the fruit or vegetable you like the best and draw a picture of yourself eating it.

fruit



root



leaf



Concept:

Animals have parts that help them move.

Wings and Claws

Read this science rhyme to your child.

Legs, flippers, wings,
and claws.

Fins, tails, hooves,
and paws.



In the air or water,
land or sky,
watch the animals
moving by.



Talk with Your Child

Explain to your child that animals have body parts that help them move. Together with your child, examine each animal, pointing to its body parts and naming each of them. Talk about the different ways animals move: swimming, flying, walking, or hopping.

Skills:

Interpret
information
from pictures;
Match to show
understanding;
Fine motor skills

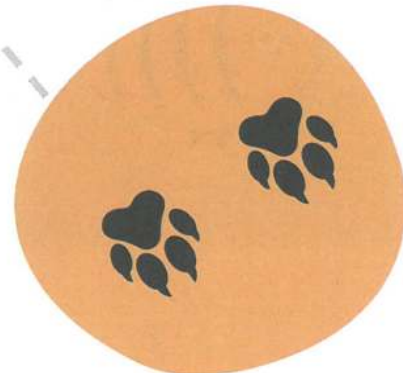
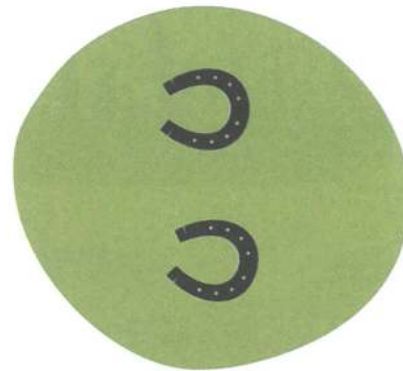
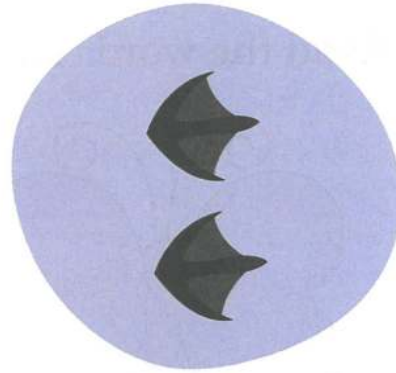
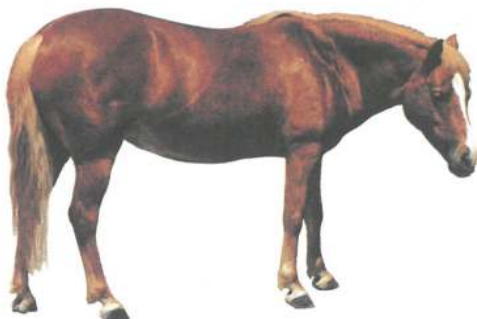
Animal Match

Draw a line to match.



Animal Tracks

Trace the line to match.



Skills:

Interpret information from pictures; Match to show understanding; Fine motor skills

Talk with Your Child

Look at the shape of each animal's feet and discuss how it helps that animal move or survive. For example, an eagle hunts with its claws.

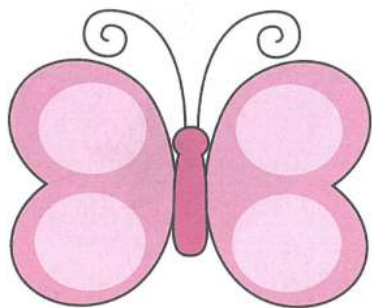
Animal Parts

Skills:

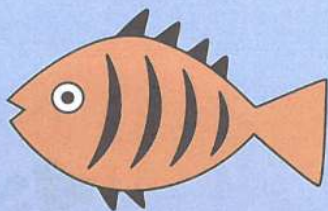
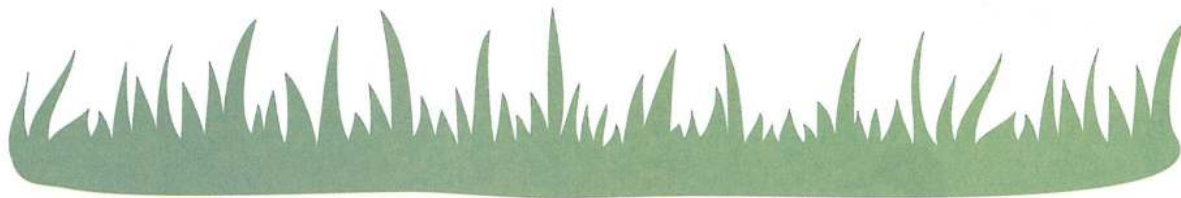
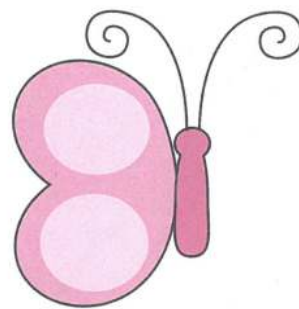
Visual
discrimination;
Draw to show
understanding;
Fine motor skills

Missing Animal Parts

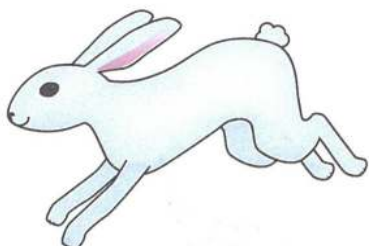
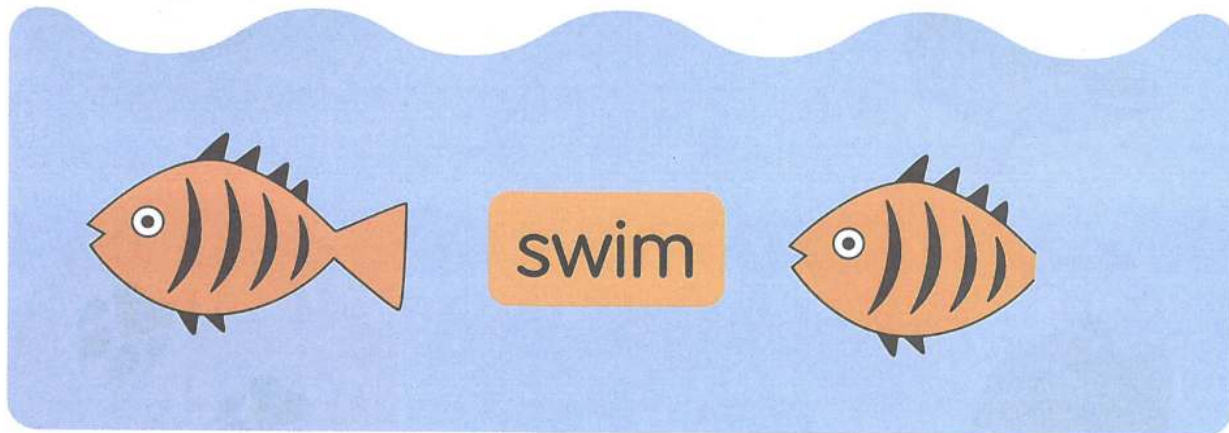
Read the word. Then draw the missing part.



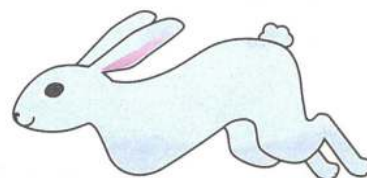
fly



swim



hop





Animal Moves

Together with your child, observe how animals in the world around you move. Identify the body parts that help them move.

Draw a picture of animals or insects you see moving in different ways.

fly

hop

walk

I found this!

Concept:

Some babies
look like their
parents.

Babies to Love

Read this science rhyme to your child.

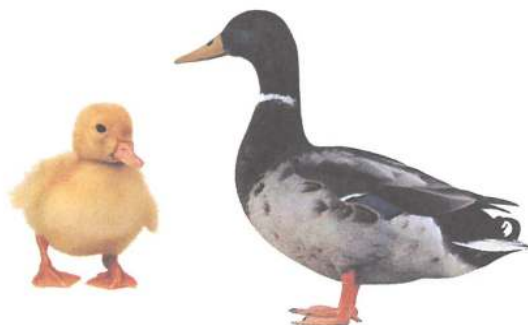
A goat
has a kid.



A cow
has a calf.

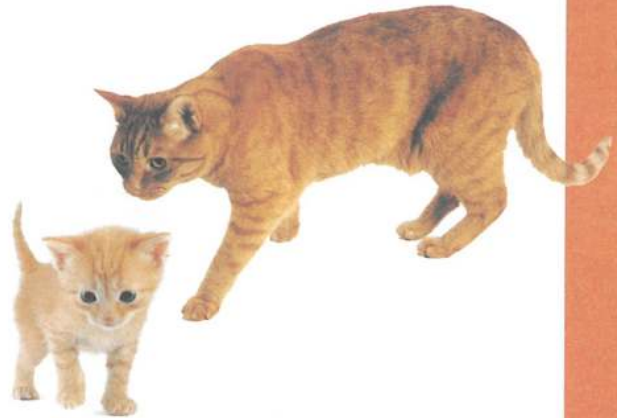


A cute little
duckling



Will make me laugh!

A cat
has a kitten.



A bear
has a cub.



Animal mamas
Have babies to love.

Talk with Your Child

Explain to your child that many animal babies look like their parents. Look at each picture and identify how the baby looks the same as its parent or different from its parent. Help your child use describing words to talk about the animal babies and their parents.

Skills:

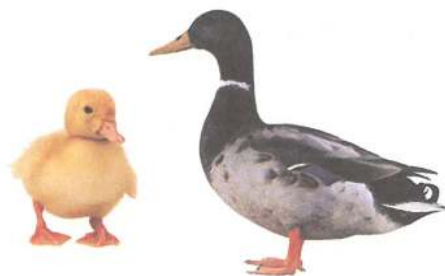
Interpret information from pictures;
Color to show understanding;
Fine motor skills

Talk with Your Child

Help your child use describing words to talk about how each animal looks.

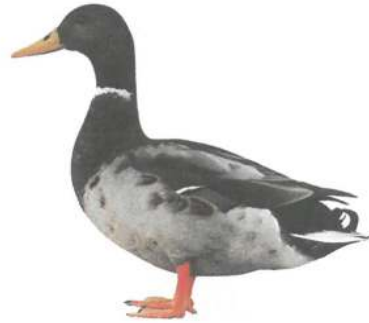
Different or the Same?

Color the ☺ if the baby looks like its mama.
Color the ☹ if it does not.



Are You My Mama?

Draw a line to match.



Skills:

Interpret
information
from pictures;
Match to show
understanding;
Fine motor skills

Animal Babies

Skills:

Visual
discrimination;
Draw to show
understanding;
Fine motor skills

Animal Babies

Draw an **X** on the baby that does not belong.

1



2



3



4

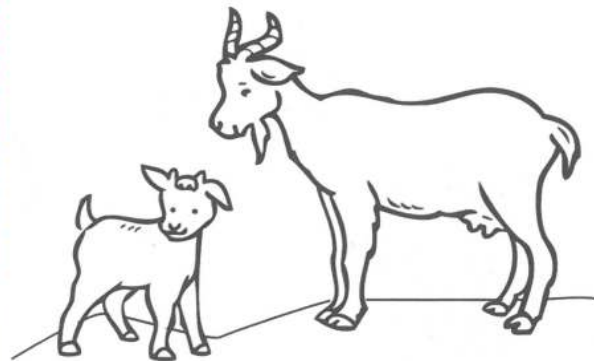
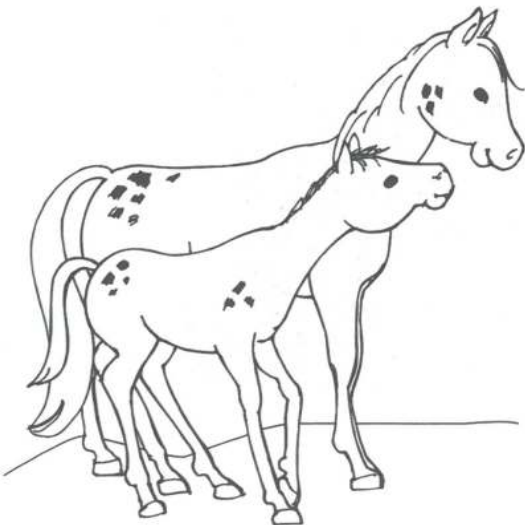
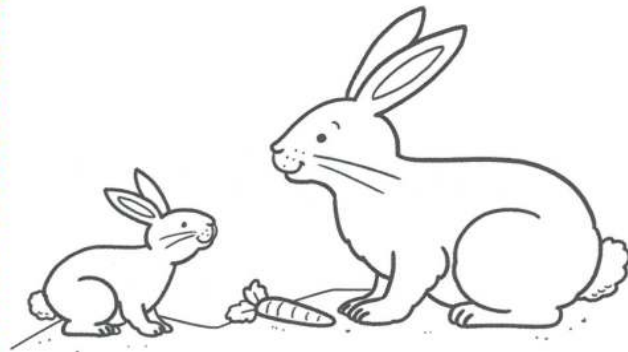
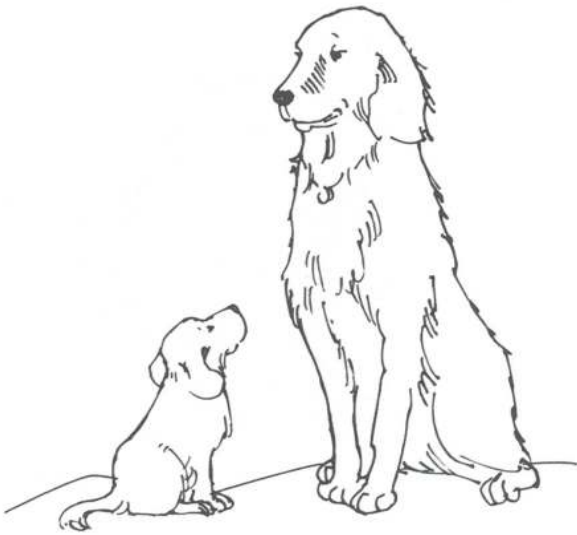




Mamas and Babies

Together with your child, identify animal parents and babies in the world around you. Extend your child's experiences by visiting a farm or a zoo.

Color each mama and baby to make them look alike.



Concept:

Animals live in
different places.

Animal Homes

Read this science rhyme to your child.

A squirrel and a bird
Both live in a tree.

You might also find
A hive for a bee.



A frog likes a wet home,
Such as a pond.

With a nice lily pad
To rest upon.



Talk with Your Child

Explain to your child that animals live in different places, or habitats. Tell your child that animals look for homes where they will be safe and they can find food. Talk about the different animal homes your child has seen in nature. Help your child use describing words to talk about each habitat.

Skills:

Interpret
information
from pictures;
Color to show
understanding;
Fine motor skills

Talk with Your Child

Help your child
identify
whether each
animal has the
right home. If it
doesn't, ask
your child
where that
animal would
live.

Can I Live Here?

Color the ☺ if the animal can live there.
Color the ☹ if it can not.



Where Do I Live?

Draw a line to match.



Skills:

Interpret
information
from pictures;
Match to show
understanding;
Fine motor skills

Homes & Habitats

Concept:

Visual discrimination;
Draw to show understanding;
Fine motor skills

Talk with Your Child

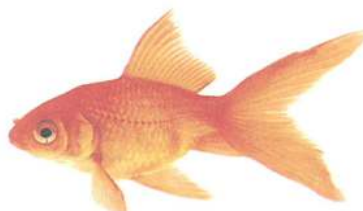
Talk about other animals that live in the pictured homes.



nest



pond



tree



I Can Live Here

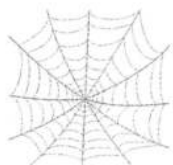
Circle the animals that can live in the home.



Outdoor Homes

Together with your child, identify animal homes in the world around you. Help your child compare homes in nature to homes that people provide for animals.

Go on a walk and look for these animal homes. Draw the animal or insect you see in or near each home.



What other animal home did you see?

LIFE SCIENCE



HOORAY!

I DID IT!



Name

I read chants and sang songs about what people, plants, and animals need to live, where they live, and how they use their parts.

I learned that all of these things are part of life science in the world around me.

I did activities that helped me better understand and talk about life science in my world.





Earth Science

These earth science lessons provide the foundation for children to develop an understanding of Earth's land and water, and the sun, moon, and weather.

☐ **Look at the Land** 104

☐ **Rocks All Around** 110

☐ **Earth Has Water** 116

☐ **Day and Night** 122

☐ **Any Kind of Weather** 128

Concept:

Earth has
different kinds
of land.

Look at the Land

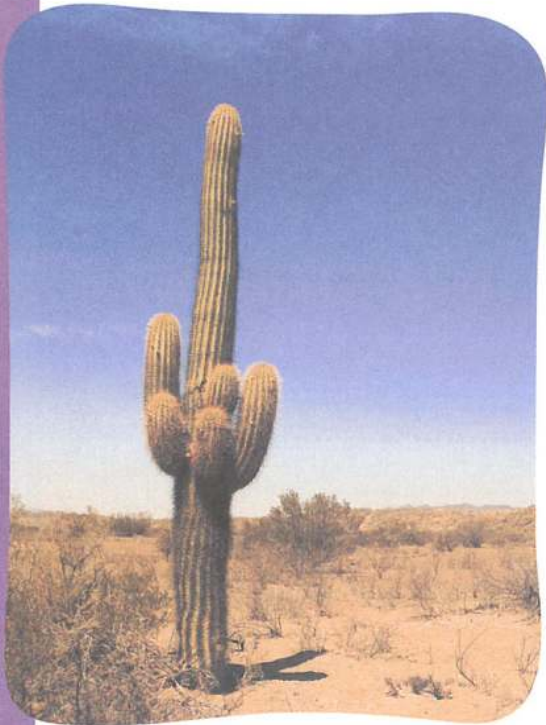
Sing this science chant to your child to the
tune of "You Are My Sunshine."



Look at the mountain.
It is a high land.



Look at the valley.
It's down below.

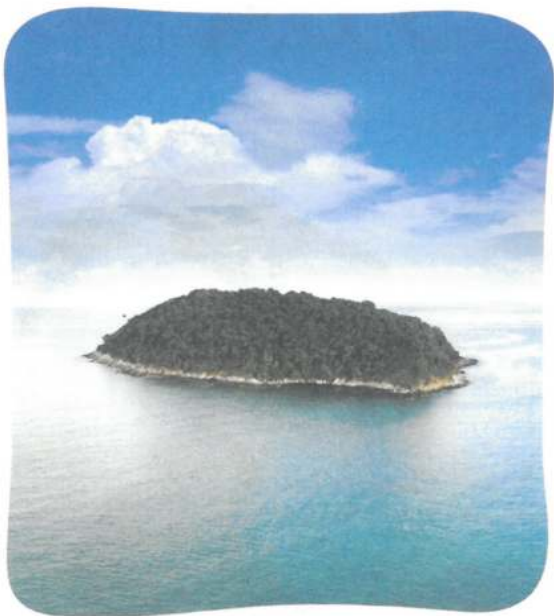
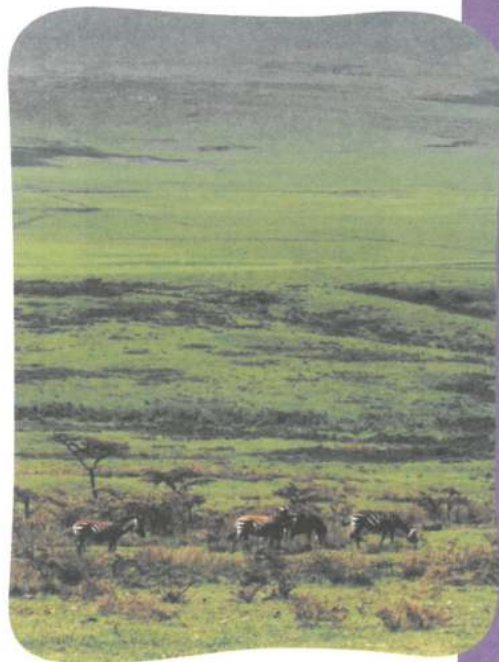


Look at the desert.
It is a dry land.

Here is where
A cactus will grow.

Look at the wide plains.
You will see few trees.

So many grasses
Cover the ground.



Look at the island.
It is surrounded.

It has water
All around.

Talk with Your Child

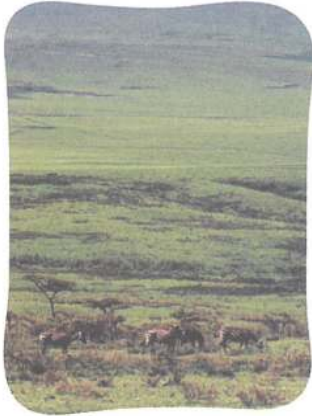
Explain to your child that Earth has many different landforms. Tell your child that mountains are high land, deserts are dry land that is sandy or rocky, plains are flat areas of land with tall grasses, and islands are land that has water all around.

Skills:

Visual
discrimination;
Draw to show
understanding;
Fine motor skills

Animal Habitats

Circle the things that belong in each place.



plains



mountain

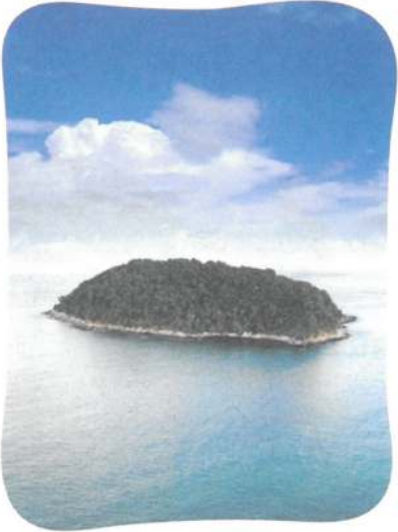
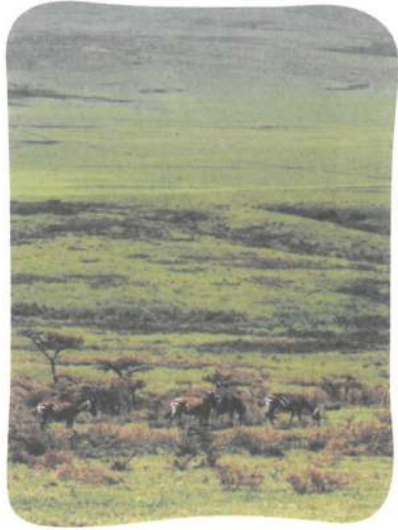
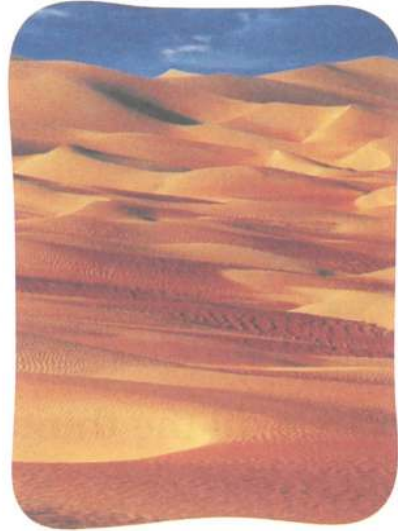
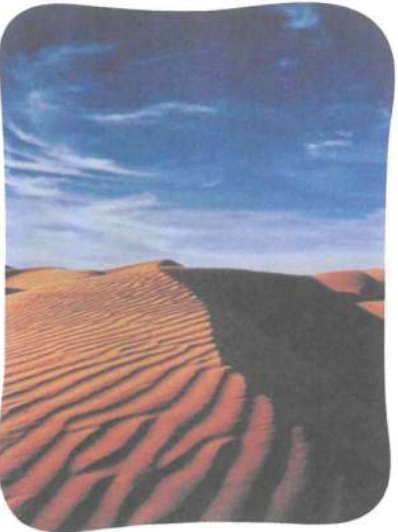
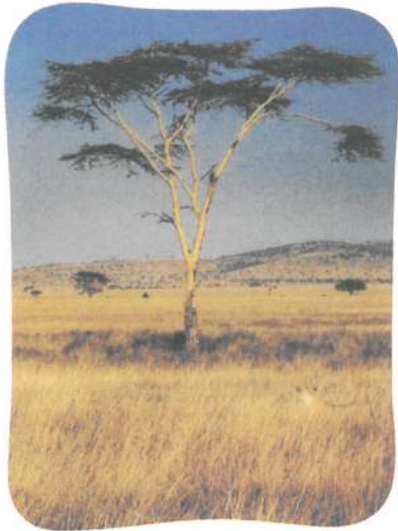


island



Land Match

Draw a line to match.



Skills:

Interpret information from pictures; Match to show understanding; Fine motor skills

Talk with Your Child

Help your child describe what is shown in each picture.

Land

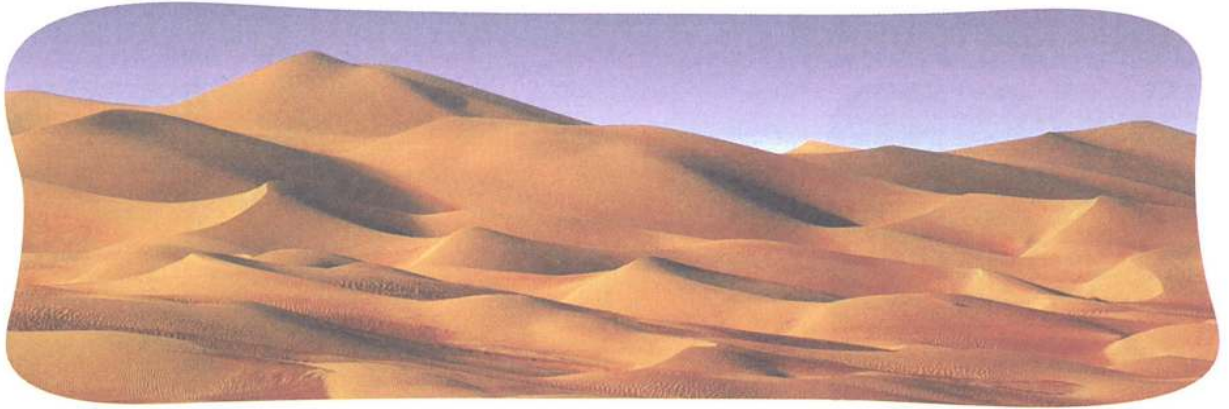
Skills:

Interpret
information
from pictures;
Draw to show
understanding;
Fine motor skills

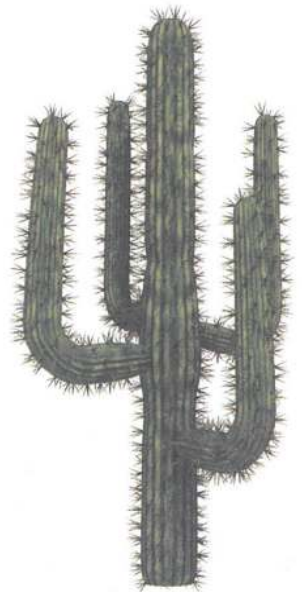
Talk with Your Child

Explain that a
desert is very
hot during the
day, so desert
animals must
hunt for food
early in the
morning or at
night when it
is cooler.

In the Desert



Circle all the things that belong in the desert.





My Land

Tell your child about the landforms in your area. Talk about the plants that grow there and the animal habitats you can find there.

Draw what the land is like where you live.

Concept:

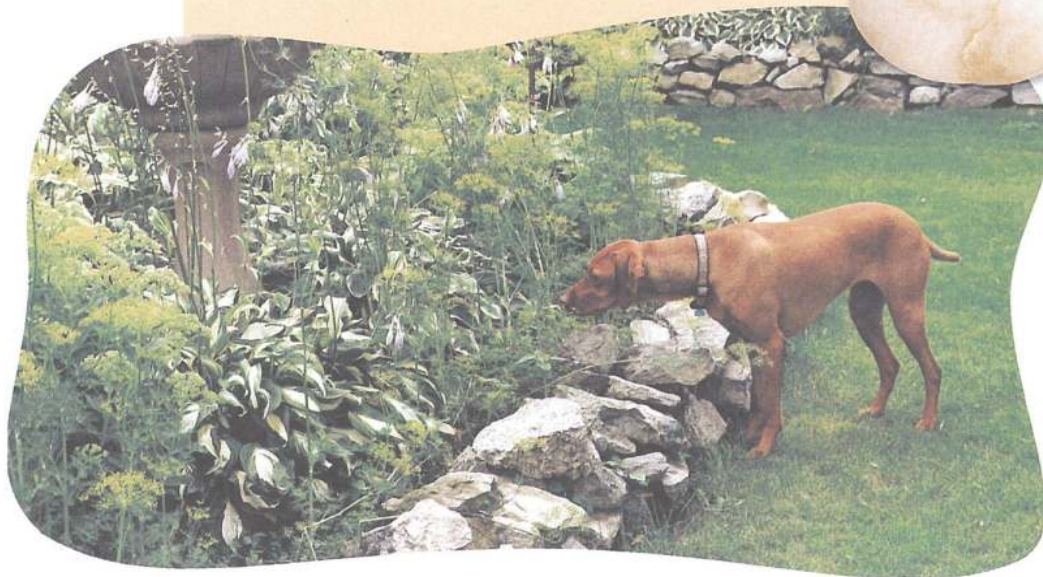
Earth has
different kinds
of rocks.

Rocks All Around

Read this science rhyme to your child.

Smooth, rough,
soft, or hard.

Lots of rocks
Are in my yard.



Brown, gray,
flat, or round.

In a wall
Or on the ground.



Talk Your Child

Explain to your child that rocks can be many sizes, shapes, colors, and textures. Tell your child that rocks are found all over the world and that people use rocks to make many different things.

Skills:

Interpret
information
from pictures;
Color to show
understanding;
Fine motor skills

Same Color?

Color the 😊 if the rocks have the same colors.
Color the ☹️ if they do not.



Rocks Everywhere

Circle all the pictures that show rock.



Skills:

Interpret information from pictures;
Draw to show understanding;
Fine motor skills

Talk with Your Child

Help your child talk about the textures of the pictured rocks. Use words such as *rough*, *smooth*, *porous*, *sharp*, etc., to describe the rocks.

Rocks

Skills:

Visual
discrimination;
Draw to show
understanding;
Fine motor skills

Smooth and Rough

Circle the rocks that look **smooth**.

Draw an **X** on the rocks that look **rough**.





Rock Hunt

Help your child find things in the world around you that are made of rock. Point out rock walls, chimneys, homes, statues, and pathways.

Go outside. Gather different kinds of rocks.
Draw your rocks below.

smooth

rough

flat

round

soft

hard

Rocks

Concept:

Earth has
different
bodies of
water.

Earth Has Water

Read this science rhyme to your child.

Earth has water.

Yes, it has different kinds—
oceans, rivers, lakes, and ponds.
Water's on my mind.



ocean



river

Playful ocean waves

Tumble up to me.

The ocean stretches far and wide,
As far as I can see.

A narrow river flows
Gently to a lake.
A lake is bigger than a pond.
Water sure is great!



lake



pond

Talk with Your Child

Explain to your child that oceans, rivers, lakes, and ponds are bodies of water. Tell your child that an ocean is a very large body of salt water; a river is a long, wide stream of water; a lake is a large body of water with land all around it; and a pond is a small area of water with land all around it.

Skills:

Interpret
information
from pictures;
Color to show
understanding;
Fine motor skills

Talk with Your Child

Help your child
decide which
body of water is
shown in each
picture.

Water Visits

Color the ☺ if you have seen the body of water.
Color the ☹ if you have not.



lake



river



pond



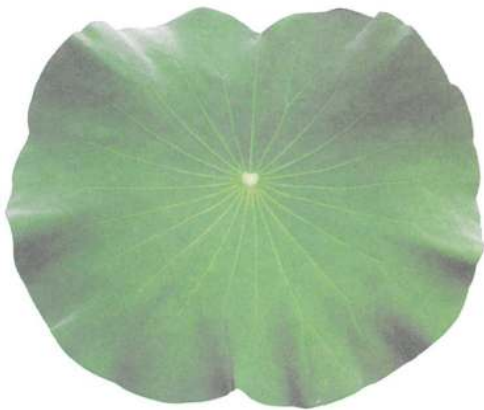
ocean



Water Match



Circle the things that could belong in a pond.



Skills:

Visual discrimination;
Draw to show understanding;
Fine motor skills

Talk with Your Child

Help your child decide which of the pictured plants and animals could live in a pond.

Skills:

Visual discrimination;
Draw to show understanding;
Fine motor skills

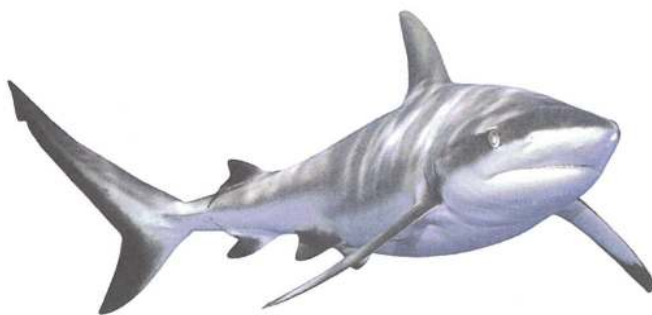
Talk with Your Child

Help your child decide which of the pictured plants and animals live in an ocean.

Big Blue Ocean



Circle the things that belong in an ocean.



Water Near My Home



Together with your child, visit a body of water near your home. Investigate which plants and animals live in or around the water.

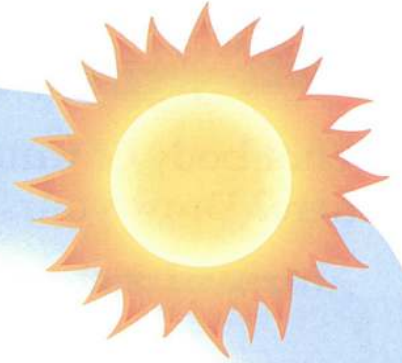
What body of water did you visit? What did you do there? Draw yourself by the water.

Concept:

Earth has day
and night.

Day and Night

Read this science rhyme to your child.



What do we see
in the sky all day?

The sun shining down
so we can play!



What do we see
in the sky at night?

The moon and the
stars beaming so bright!



Talk with Your Child

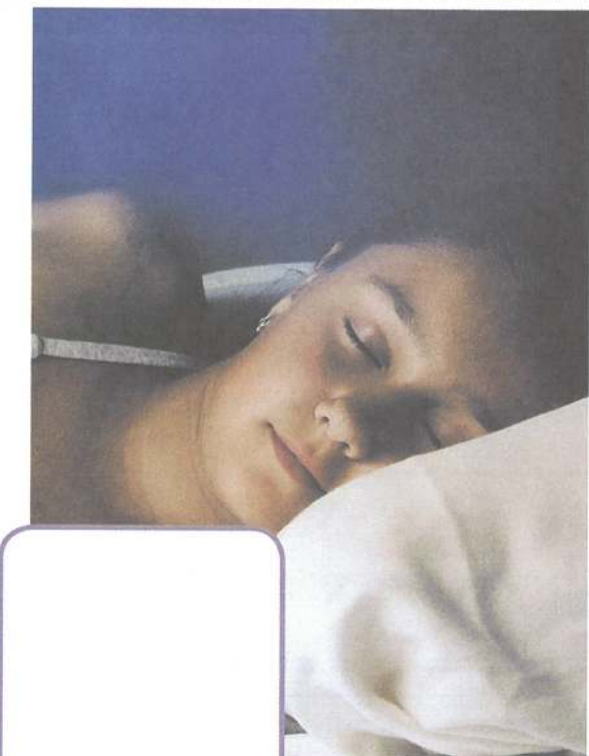
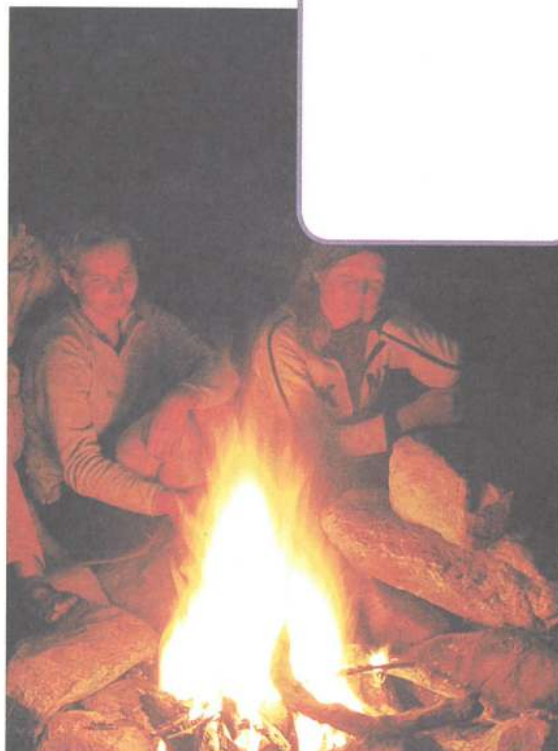
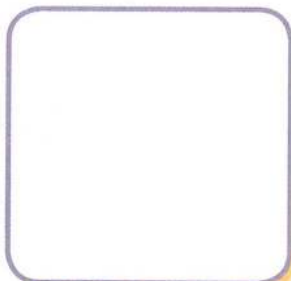
Talk to your child about the activities people do during the day when it is light outside and at night when it is dark. Explain that we have day and night because the sun does not shine everywhere on Earth at the same time.

Skills:

Interpret
information
from pictures;
Draw to show
understanding;
Fine motor skills

Sun or Moon?

Draw a ☀ or a ☾ to show when the activity happens.



Day or Night?

Draw a line to match.



Skills:

Interpret
information
from pictures;
Match to show
understanding;
Fine motor skills

Day and Night

Skills:

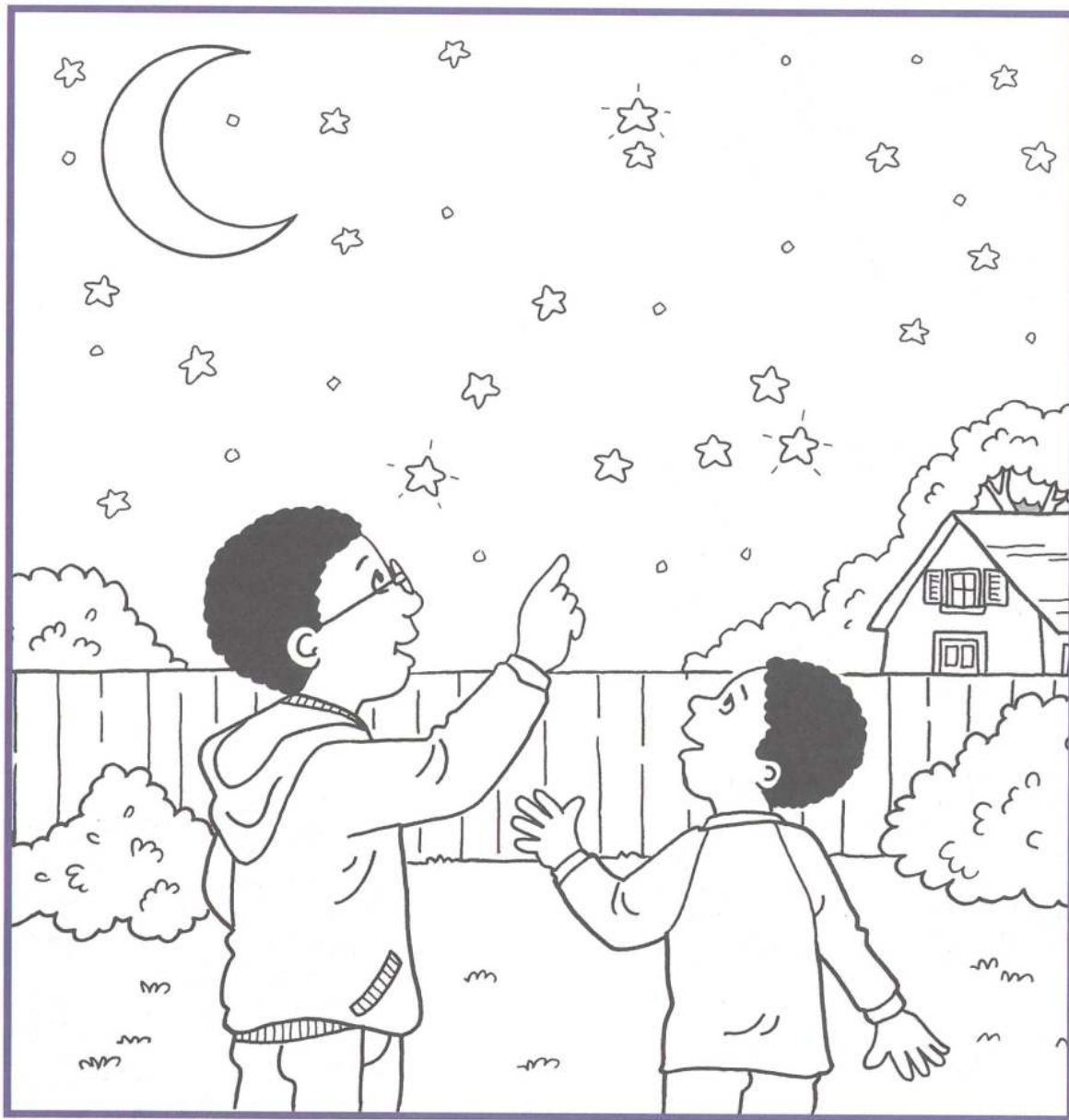
Color to show understanding;
Fine motor skills

Talk with Your Child

Talk about the colors you've seen in the night sky. Then read the sentence to your child.

Look at the Moon

Color the picture.




The stars and the moon shine brightly.

What I Do Day and Night



Together with your child, discuss activities that he or she does during the day and at night.

Draw something you do during the day.
Draw something you do at night.


| | |
|---|---|
| | |
| day  | night  |

Day and Night

Concept:

Earth has
different kinds
of weather.

Any Kind of Weather

Sing this science chant to your child to the
tune of "You Are My Sunshine." 

On a wet and drippy day
With clouds up in the sky,

A raincoat and umbrella
Help to keep us dry.





On a cold and snowy day,
I like to ride my sled.



Thick and cozy mittens,
A warm hat for my head.



In any kind of weather,
I have lots of fun.



I'm prepared to go outside
In rain or snow or sun!



Talk with Your Child

Talk about different kinds of weather with your child: sunny, rainy, cloudy, windy, and snowy. Help your child use words to describe how the weather affects the temperature. Then talk about the people who do certain activities in different kinds of weather.



Skills:

Visual discrimination;
Draw to show understanding;
Fine motor skills

Talk with Your Child

Help your child identify what kind of weather takes place when the clothing in each row is worn.

Odd One Out

Draw an **X** on the thing that does not belong.

1



2



3



Weather Match

Draw a line to match.



Skills:

Interpret
information
from pictures;
Match to show
understanding;
Fine motor skills

Skills:

Visual discrimination;
Draw to show understanding;
Fine motor skills

Talk with Your Child

Help your child explain why each circled item is worn on a warm, sunny day.

Warm and Sunny

Circle the things to wear on a warm, sunny day.





Today's Weather

Together with your child, talk about the weather in your area. Does the weather change often? Help your child think about how the weather affects his or her life.

What is the weather like today?
Circle the picture.



Draw yourself dressed for the weather.



EARTH SCIENCE



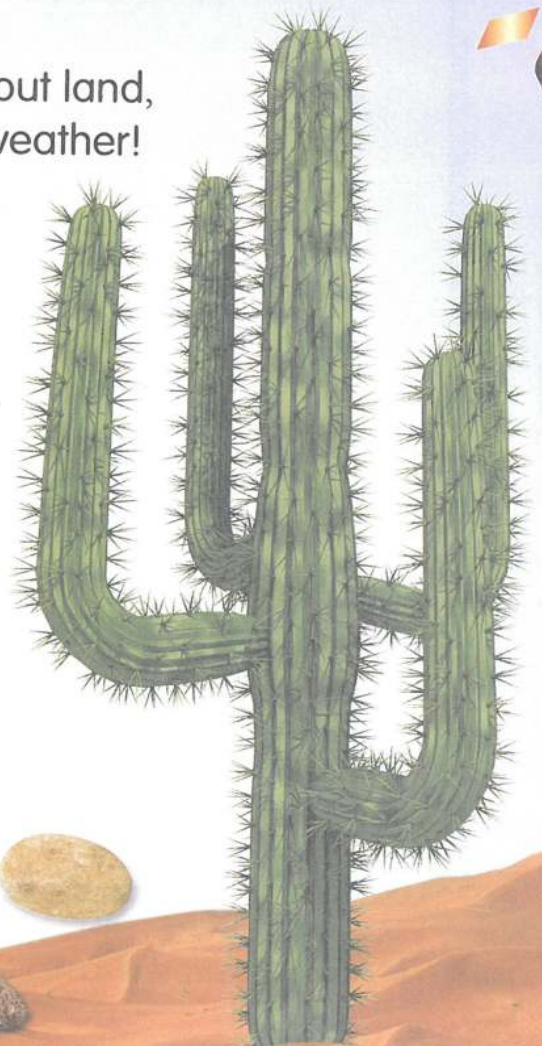
HOORAY!
I DID IT!

Name

I read chants and sang songs about land, rocks, water, day and night, and weather!

I learned that all of these things are part of earth science in the world around me.

I did activities that helped me better understand and talk about earth science in my world.



Answer Key

Page 12

Hoppy Frog

Color: yellow green blue

Colors

Physical Science

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Page 13

In the Garden

Help each butterfly get to the flower with the same color.

Colors

Physical Science

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Page 14

Color Match

Draw a line to match.

purple

yellow

red

green

orange

blue

brown

Colors

Physical Science

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Page 15

Color Hunt

Check ☒ each color that you see. Write where you see the color.

blue ☐ green ☐

yellow ☐ red ☐

purple ☐ brown ☐

orange ☐ black ☐

Answers will vary.

Colors

Physical Science

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Page 18

4 Shapes

Find the shapes. Trace them. Color the picture.

Answers will vary.

Shapes

Physical Science

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Page 19

Shapes in Nature

Trace to match the shapes. Then color the shape.

Shapes

Physical Science

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Page 20

More Shapes

Draw a line to match the shapes.

Shapes

Physical Science

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Page 21

Shape Hunt

Write where you see these shapes.

Answers will vary.

Shapes

Physical Science

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Page 24

Big and Small

Draw a line to big or small.

big

small

Sizes

Physical Science

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Small, Medium, Large

Trace to match the birds with the nests.

Sizes

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Physical Science

Short and Tall

Draw short and tall animals.

Sizes

Physical Science

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Size Hunt

Together with your child, go on a walk and identify sizes in the world around you. Help your child see the world in different sizes.

In each box, draw pictures of what you see.

| | |
|--------------------|--------------------------|
| short and tall | big and small |
| Answers will vary. | Answers will vary. |
| thin and wide | small, medium, and large |
| Answers will vary. | Answers will vary. |

Sizes

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Physical Science

Soft and Hard

Draw a line to soft or hard.

Textures

Physical Science

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Happy Trails

Trace the grainy, slimy, and watery trails.

Textures

Physical Science

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It Feels Different

Circle the one that has a different texture.

-
-
-

Textures

Physical Science

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Texture Hunt

Help your child feel textures in the world around you. Find the words below and draw a line to each object with the same texture.

Draw a picture of what you feel.

| | |
|--------------------|--------------------|
| bumpy | soft |
| Answers will vary. | Answers will vary. |
| furry | slimy |
| Answers will vary. | Answers will vary. |
| rough | hard |
| Answers will vary. | Answers will vary. |

Textures

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Physical Science

Wheels Help Us Move

Draw a line to match.

Wheels

Physical Science

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Wheels Go Round

Trace the wheels.

Wheels

Physical Science

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Wheels Help Us Work

Draw a line to match.

Wheels

Physical Science

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Wheels at Home

Write a check ✓ next to each item you find at home.

Answers will vary.

Wheels

Physical Science

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Animal Noises

Draw an X on the one that is not an animal sound.

Sounds

Physical Science

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Loud and Soft

Draw an X on the pictures of sounds you think are **loud**. Circle the pictures of sounds you think are **soft**.

Sounds

Physical Science

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Indoor & Outdoor Sounds

Underline the **indoor** sounds. Circle the **outdoor** sounds.

Sounds

Physical Science

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Outdoor Sounds

Go outside. Listen quietly for 3 minutes. Check ✓ each sound you hear.

Answers will vary.

What was the loudest sound? _____

What was the quietest sound? _____

Sounds

Physical Science

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Move It!

Draw a line to match.

Motion

Physical Science

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Bounce and Roll

Trace the path of each ball.

Motion

Physical Science

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Will It Roll?

Circle the things that will roll if you push them.

Motion

Physical Science

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Move Things at Home

Together with your child, use different ways to make a ball move. Roll the ball on the ground, hit a ball with a bat, push a ball across the floor, and down a hill up into the air. Have your child write down in which direction the ball moves and how the ball moves.

Draw pictures that show how you can make things move.

Answers will vary.

I pushed a _____

Answers will vary.

I threw a _____

Answers will vary.

I rolled a _____

Answers will vary.

I hit a _____

Motion

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Living or Nonliving?

Color the ☺ if it is living.
Color the ☹ if it is not living.

☺ ☹

☺ ☹

☺ ☹

☺ ☹

Living or Nonliving?

Life Science Skill Sharpeners—Science • EMC 5319 • © Evan-Moor Corp.

Grow and Change

Draw a line to match.

Living or Nonliving?

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Living Things

living

Circle the living things.

Living or Nonliving?

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Nature Hunt

Together with your child, go on a scavenger hunt for living things you can see outside. Talk about how each living thing grows and changes.

Draw a picture of living things you find.

insect

Answers will vary.

bird

Answers will vary.

tree

Answers will vary.

grass

Answers will vary.

I found a _____

Answers will vary.

Living or Nonliving?

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What a Bird Needs

Color the ☺ if the bird needs it.
Color the ☹ if it does not.

☺ ☹

☺ ☹

☺ ☹

☺ ☹

Basic Needs

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What Things Need

Draw a line to match.

Basic Needs

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A Plant's Needs

Circle the things that a plant needs.

Basic Needs

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Animal Observations

Together with your child, observe a household pet or an animal living in the wild. Help your child talk about how the animal is meeting its basic needs.

Draw an animal getting food or water.
Draw an animal sleeping.

Animal getting food or water

Answers will vary.

Animal sleeping

Answers will vary.

Basic Needs

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Skills:
Look at the pictures and decide if you like them. Color the () if you like it. Color the () if you do not.

Answers will vary.

Parts of the Body

Life Science

My Body

Draw lines from the objects to the boy's body parts to show what senses he uses.

Answers will vary.

Parts of the Body

Life Science

Skills:
Look at the body part in each row. Which sense does it help you use? Circle the items you can experience using that sense.

Five Senses

Parts of the Body

Life Science

I Use My Five Senses

Together with your child, talk about how you use your senses. Help your child use drawing words to talk about sizes, shapes, amounts, and amounts.

Draw pictures of yourself using each of your five senses.

Answers will vary.

Parts of the Body

Life Science

Skills:
Look at the pictures and decide if you like them. Color the () if you like it. Color the () if you do not.

Missing Plant Parts

Draw the missing parts.

Plant Parts

Life Science

Skills:
Look at the pictures and decide if you like them. Color the () if you like it. Color the () if you do not.

Match the Parts

Draw a line to match.

Plant Parts

Life Science

Skills:
Look at the pictures and decide if you like them. Color the () if you like it. Color the () if you do not.

Same Plant Parts

Draw an X on the plant part that is different.

Plant Parts

Life Science

Skills:
Look at the pictures and decide if you like them. Color the () if you like it. Color the () if you do not.

Grow a Bean Plant

Grow your own bean plant.

1 Put a wet paper towel in a cup. Add 2 bean seeds.

2 Place the cup in a sunny spot. Water a little every day.

3 In a few days, you will see roots! Plant the roots in some soil. Water and watch your plant grow.

Answers will vary.

Plant Parts

Life Science

Skills:
Look at the pictures and decide if you like them. Color the () if you like it. Color the () if you do not.

Do You Like It?

Color the () if you like to eat the plant part. Color the () if you do not like it.

Answers will vary.

Plant Parts We Eat

Life Science

Fruit, Root, Seed, or Leaf?

Draw a line to match.

fruit

root

seed

leaf

Plant Parts We Eat

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Fruits and Vegetables

Draw an X on the plant part that does not belong.

1

2

3

Plant Parts We Eat

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Good to Eat

Circle the fruit or vegetable you like the best and draw a picture of yourself eating it.

fruit

Answers will vary.

root

Answers will vary.

leaf

Answers will vary.

Plant Parts We Eat

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Animal Match

Draw a line to match.

Animal Parts

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Animal Tracks

Trace the line to match.

Animal Parts

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Missing Animal Parts

Read the word. Then draw the missing part.

fly

swim

hop

Animal Parts

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Animal Moves

Draw a picture of animals or insects you see moving in different ways.

fly **Answers will vary.**

hop **Answers will vary.**

walk **Answers will vary.**

I found this! **Answers will vary.**

Animal Parts

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Different or the Same?

Color the ☺ if the baby looks like its mama. Color the ☹ if it does not.

Animal Babies

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Are You My Mama?

Draw a line to match.

Animal Babies

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Animal Babies

Draw an X on the baby that does not belong.

1.

2.

3.

4.

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Mamas and Babies

Together with your child, identify animal parents and babies in the world around you. Record your child's experiences by drawing a line that connects them.

Color each mama and baby to make them look alike.

Answers will vary.

Animal Babies

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Can I Live Here?

Color the ☺ if the animal can live there. Color the ☹ if it can not.

Homes & Habitats

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Where Do I Live?

Draw a line to match.

Homes & Habitats

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I Can Live Here

Circle the animals that can live in the home.

Homes & Habitats

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Outdoor Homes

Go on a walk and look for these animal homes. Draw the animal or insect you see in or near each home.

Answers will vary.

Answers will vary.

Answers will vary.

Answers will vary.

What other animal home did you see?

Homes & Habitats

Life Science Skill Sharpeners—Science—EMC 5319—© Evan Moor Corp.

Animal Habitats

Circle the things that belong in each place.

plains

mountain

island

Land

Earth Science Skill Sharpeners—Science—EMC 5319—© Evan Moor Corp.

Land Match

Draw a line to match.

Land

Earth Science Skill Sharpeners—Science—EMC 5319—© Evan Moor Corp.

In the Desert

Circle all the things that belong in the desert.

Land

Earth Science Skill Sharpeners—Science—EMC 5319—© Evan Moor Corp.

My Land

Tell your child about the landforms in your area. Talk about the places that grow them and the animal habitats you can find there.

Draw what the land is like where you live.

Answers will vary.

Land

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Same Color?

Color the ☺ if the rocks have the same colors. Color the ☹ if they do not.

Rocks

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Rocks Everywhere

Circle all the pictures that show rock.

Rocks

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Smooth and Rough

Circle the rocks that look smooth. Draw an X on the rocks that look rough.

Rocks

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Rock Hunt

Help your child find things in the world around you that are made of rock. Paint sea rock walls, chimneys, houses, statues, and pathways.

Go outside. Gather different kinds of rocks. Draw your rocks below.

| | |
|--------------------|--------------------|
| smooth | rough |
| Answers will vary. | Answers will vary. |
| flat | round |
| Answers will vary. | Answers will vary. |
| soft | hard |
| Answers will vary. | Answers will vary. |

Rocks

© Evan-Moor Corp. • EMC 5319 • Skill Sharpeners—Science Earth Science 115

Water Visits

Color the ☺ if you have seen the body of water. Color the ☹ if you have not.

lake river pond ocean

Answers will vary.

Water

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Water Match

Circle the things that could belong in a pond.

Water

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Big Blue Ocean

Circle the things that belong in an ocean.

Water

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Water Near My Home

What body of water did you visit? What did you do there? Draw yourself by the water.

Answers will vary.

Water

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Sun or Moon?

Draw a ☀ or a 🌙 to show when the activity happens.

Earth Science 124

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Day or Night?

Draw a line to match.

Earth Science 125

Skill Sharpeners—Science—EMC 5319—© Evan-Moor Corp.

Look at the Moon

Color the picture.

The stars and the moon shine brightly.

Earth Science 126

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What I Do Day and Night

Together with your child, discuss activities that he or she does during the day and at night.

Draw something you do during the day.
Draw something you do at night.

Answers will vary.

day ☀ night 🌙

Earth Science 127

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Odd One Out

Draw an X on the thing that does not belong.

Weather 130

Earth Science Skill Sharpeners—Science—EMC 5319—© Evan-Moor Corp.

Weather Match

Draw a line to match.

Weather 131

Earth Science Skill Sharpeners—Science—EMC 5319—© Evan-Moor Corp.

Warm and Sunny

Circle the things to wear on a warm, sunny day.

Weather 132

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Today's Weather

Together with your child, talk about the weather in your area. Then the weather changes! Help your child think about how the weather affects his or her life.

What is the weather like today?
Circle the picture.

Draw yourself dressed for the weather.

Answers will vary.

Weather 133

Earth Science Skill Sharpeners—Science—EMC 5319—© Evan-Moor Corp.

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| | | | |
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| | | | |
|------|----------|---|----------|
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Math

| | | | |
|------|----------|---|----------|
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| K | EMC 4544 | 4 | EMC 4548 |
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| | | | |
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