GINA & OLLIE EXPLORE

A PLANT'S LIFE CYCLE

A flowering plant grows, makes seeds, and begins again.

1 SEED

A seed holds a tiny plant.



2 GERMINATION

With water, air and the right warmth, a seed can start to grow.



3 SEEDLING

Roots grow down.
A shoot grows up.



4 ADULT PLANT

The plant grows more leaves.



5 FLOWERS

Flowers can form fruits or pods.



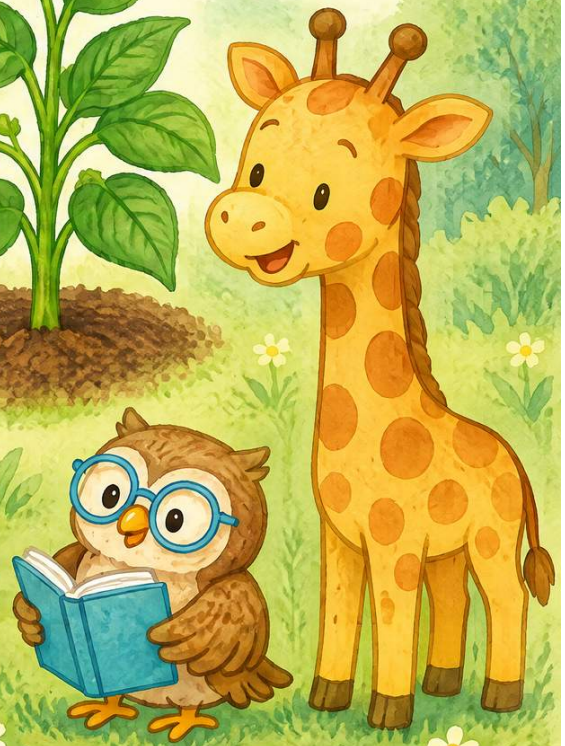
6 NEW SEEDS

Seeds inside the pod can grow into new plants.



FOLLOW THE GROWTH

Start with the seed. Tell what happens next.



A simple life cycle of a flowering plant.

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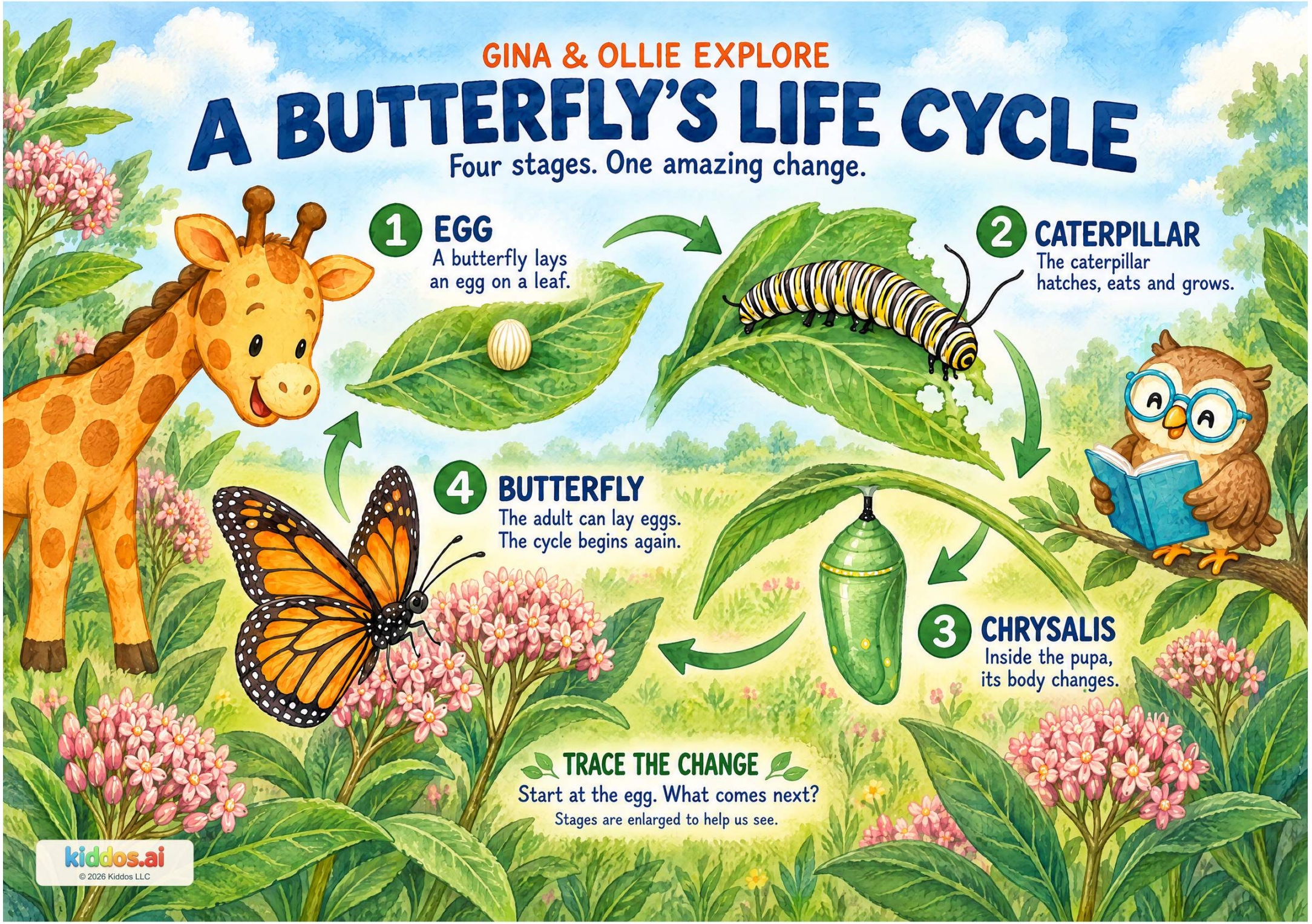

GINA & OLLIE EXPLORE
OUR SOLAR SYSTEM
Eight planets travel around the Sun.
SUN
Our star gives us light and heat.
MERCURY
The smallest planet
VENUS
The hottest planet
EARTH
Our home
MOON
MARS
The red planet
ASTEROID BELT
JUPITER
The largest planet
SATURN
Rings of ice and rock
URANUS
Tilted on its side
NEPTUNE
Farthest planet from the Sun
LOOK POINT WONDER
Start at the Sun. Can you name all eight planets in order?
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Planet sizes and distances are not shown to scale.


GINA & OLLIE EXPLORE
THE WATER CYCLE
Water keeps moving around Earth.
The Sun gives the water cycle energy.
1 EVAPORATION
The Sun warms water. Liquid water becomes invisible water vapor.
Water vapor is invisible.
2 CONDENSATION
Water vapor cools into tiny liquid drops. These drops form clouds.
3 PRECIPITATION
Water falls from clouds as rain or snow.
4 COLLECTION
Water gathers in rivers, lakes and oceans.
FOLLOW A DROP
Trace the water's journey with your finger.
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GINA & OLLIE EXPLORE

A BUTTERFLY'S LIFE CYCLE

Four stages. One amazing change.



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GINA & OLLIE EXPLORE
DAY & NIGHT
Earth turns. Day becomes night.
EARTH SPINS
DAY
The side facing the Sun has day.
NIGHT
The side turned away has night.
ONE FULL TURN
Earth takes about 24 hours to turn once.
POINT & EXPLAIN
Which side of Earth has day?
Which side has night?
Diagram not to scale.
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GINA & OLLIE EXPLORE

EXPLORE WITH YOUR SENSES

Five familiar ways to notice the world.



SIGHT • EYES
Notice colors, shapes and movement.



HEARING • EARS
Listen for sounds.



TOUCH • SKIN
Feel texture, warmth and coolness.

SMELL • NOSE
Notice scents in the air.



TASTE • TONGUE
Taste flavors in food.

PAUSE & NOTICE
Choose one sense.
What do you notice?

Only taste food a grown-up says is safe.

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GINA & OLLIE EXPLORE

THE FOUR SEASONS

A year brings changes to many places.

SPRING

New buds open.
Many flowers bloom.

SUMMER

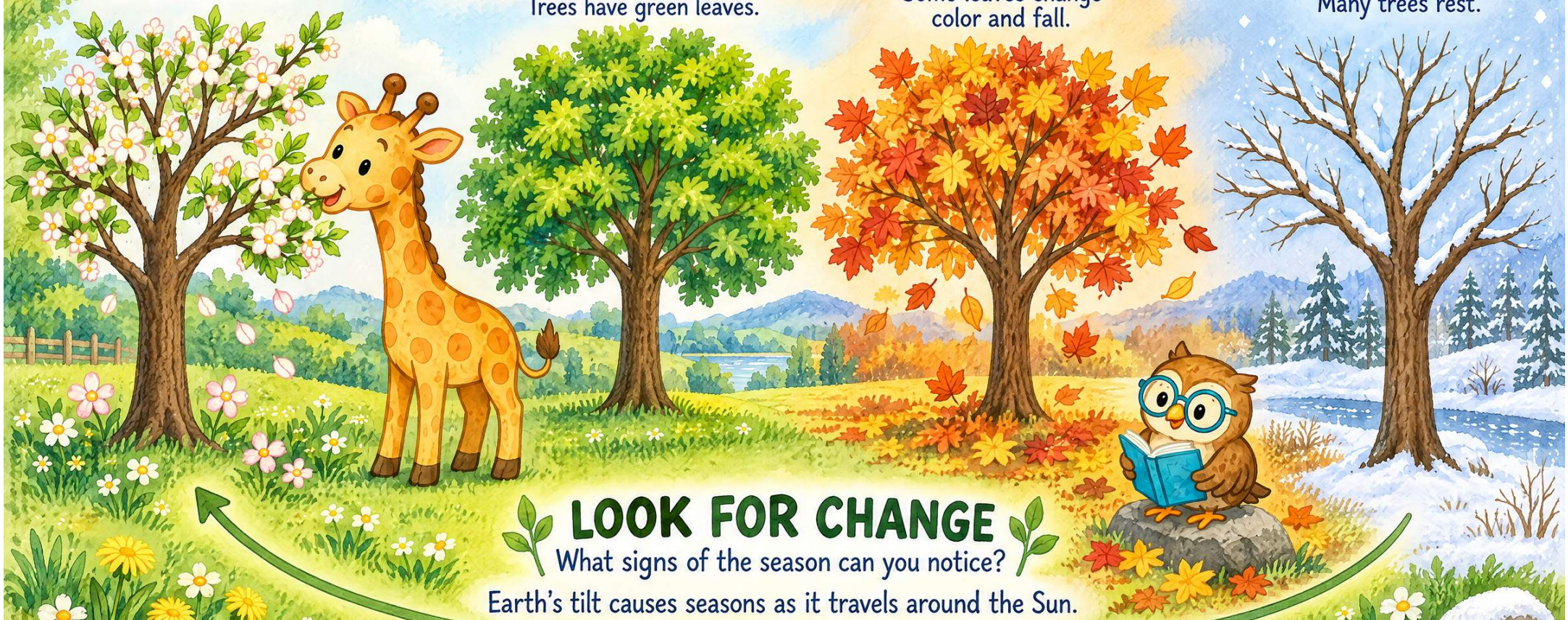
Days are often warm.
Trees have green leaves.

AUTUMN

Some leaves change color and fall.

WINTER

Days are often cold.
Many trees rest.



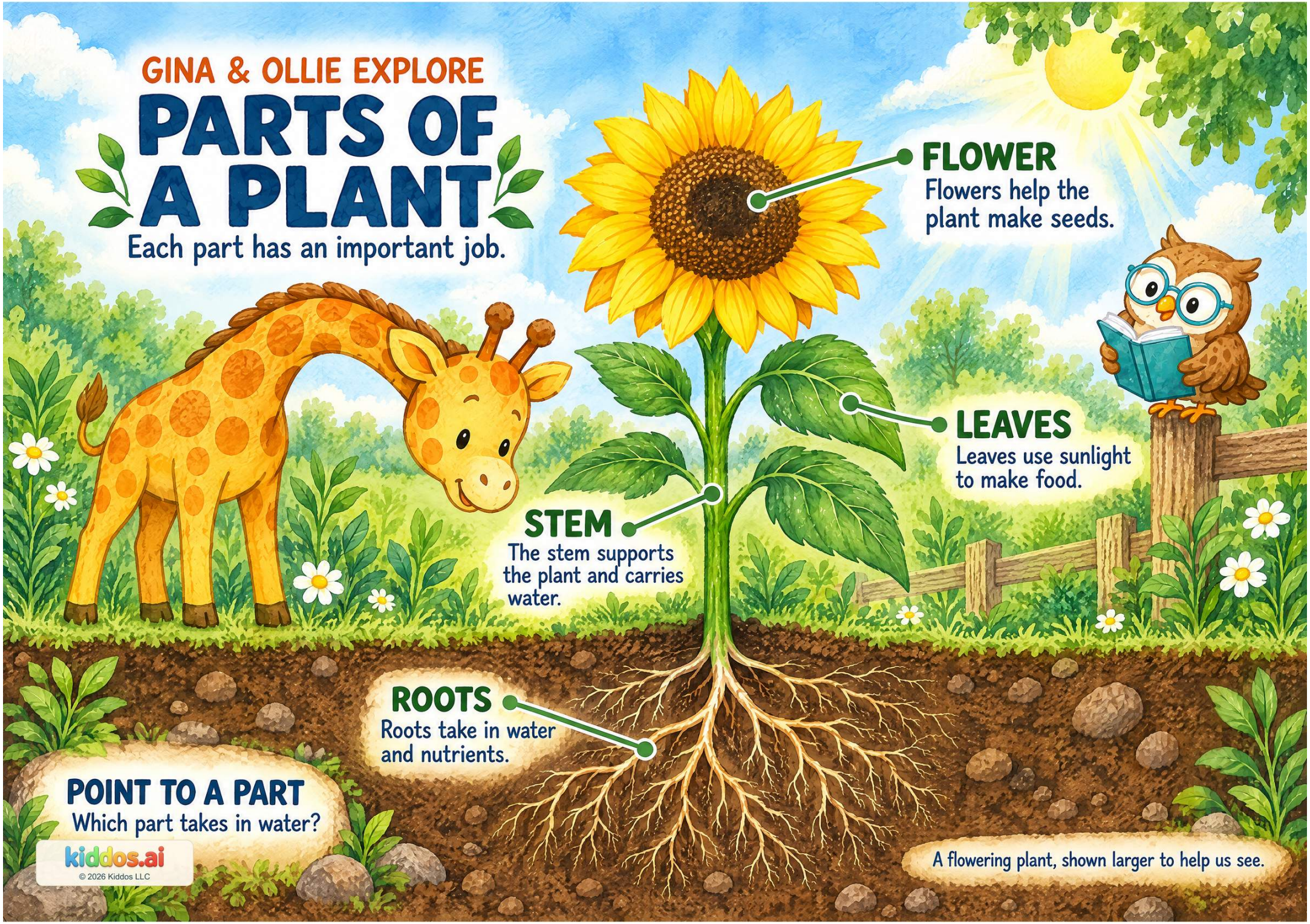
LOOK FOR CHANGE

What signs of the season can you notice?

Earth's tilt causes seasons as it travels around the Sun.

A temperate-place example. Seasons and weather vary around the world.

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GINA & OLLIE EXPLORE
PARTS OF A PLANT
Each part has an important job.
FLOWER
Flowers help the plant make seeds.
LEAVES
Leaves use sunlight to make food.
STEM
The stem supports the plant and carries water.
ROOTS
Roots take in water and nutrients.
POINT TO A PART
Which part takes in water?
A flowering plant, shown larger to help us see.
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GINA & OLLIE EXPLORE

ANIMAL HABITATS

A habitat is a place where an animal finds what it needs.

FOOD • WATER • SHELTER • SPACE

WOODLAND

A red squirrel finds seeds in trees.

HOT DESERT

A fennec fox rests in a cool burrow.

POND

A frog grows from a tadpole in water.

ARCTIC

A polar bear uses sea ice to find food.

LOOK & WONDER

Where could each animal find shelter?
Four different habitats.

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GINA & OLLIE EXPLORE

A FROG'S LIFE CYCLE

From an egg to a frog—and back to eggs.



LOOK & WONDER

What changes at each stage?

A common pond-frog life cycle. Stages are not to scale. Watch pond wildlife with a grown-up.

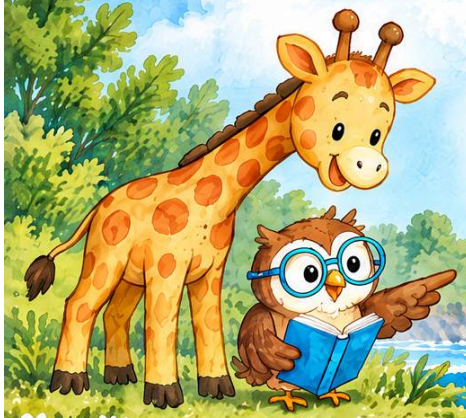
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GINA & OLLIE EXPLORE
HOW SHADOWS WORK
A shadow forms when an object blocks light.
1 LIGHT SOURCE
A flashlight sends out light.
2 OBJECT
This solid shape blocks light.
3 SHADOW
A darker shape appears on the screen.
TRY IT
With a grown-up, move the object. What changes?
Point the flashlight at the screen, away from eyes.
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GINA & OLLIE EXPLORE

LIGHT IN THE OCEAN

The deeper we go, the less sunlight reaches us.



Surface

SUNLIT ZONE

Most sunlight is near the surface.
Algae use light to make food.



About 200 m

TWILIGHT ZONE

Only faint sunlight reaches here.



About 1,000 m

DARK ZONE

No sunlight reaches here.
Some animals make their own light.



LOOK & WONDER

Which zone has the most light?

Depths are approximate.
Picture not to scale.

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GINA & OLLIE EXPLORE

WHAT'S THE WEATHER?

Weather is what the air and sky are like here, now.
Five weather examples

SUNNY
Sunlight reaches the ground.

CLOUDY
Clouds cover much of the sky.

RAINY
Drops of water fall from clouds.



WINDY
Moving air bends grass and rustles leaves.

SNOWY
Snowflakes are made of ice crystals.

LOOK & WONDER
Look outside with a grown-up. What do you notice?
Weather can change—and conditions can happen together.

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GINA & OLLIE EXPLORE

ANIMAL COVERINGS

Animals have different kinds of body coverings.



FEATHERS

All birds have feathers.



SHELL

A turtle's shell is part of its body.



FUR

Fur helps many mammals keep warm.



SCALES

Many fish have overlapping scales.

LOOK & WONDER

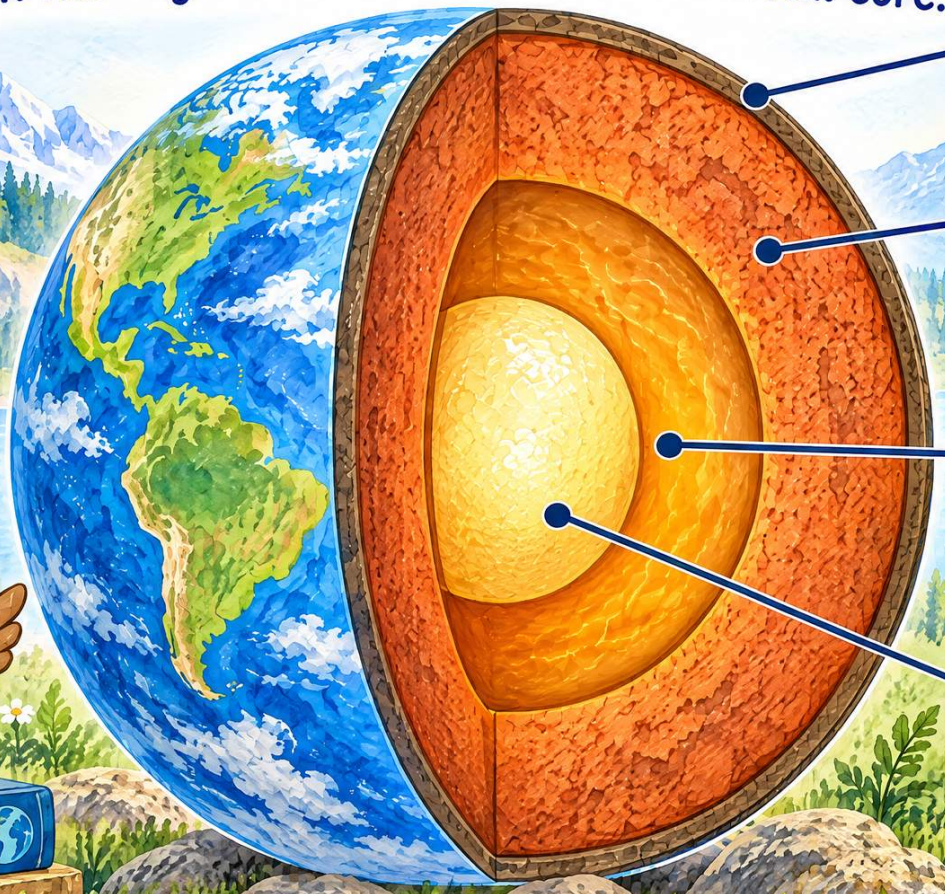
What covers Ollie's wings?

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GINA & OLLIE EXPLORE

INSIDE EARTH

Earth has layers, from a thin crust to a metal core.

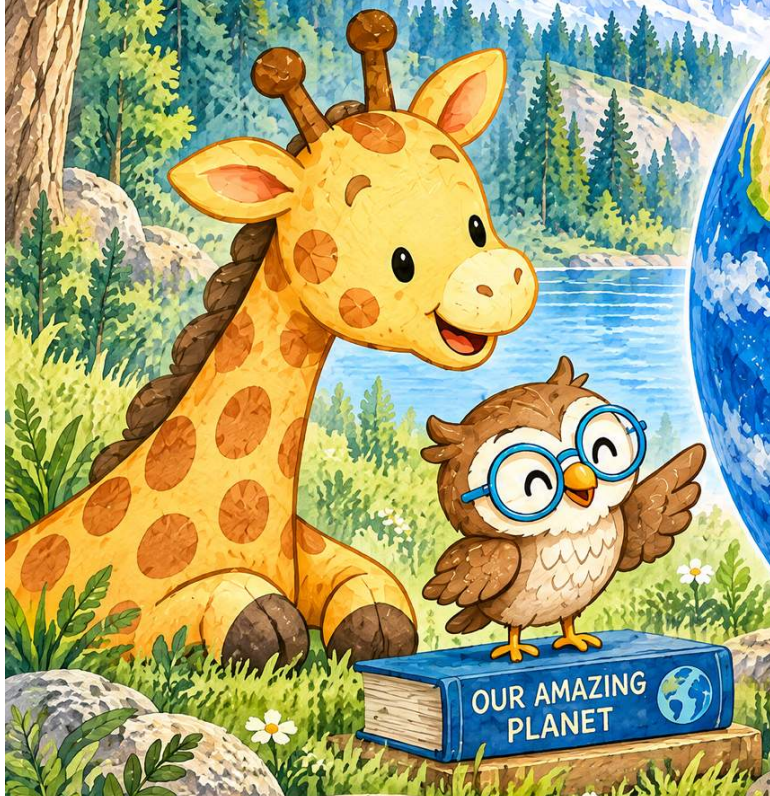


CRUST
The thin, rocky outside.

MANTLE
Mostly solid rock that flows very slowly.

OUTER CORE
Liquid metal.

INNER CORE
Solid metal.



LOOK & WONDER

Which layer is in the center?

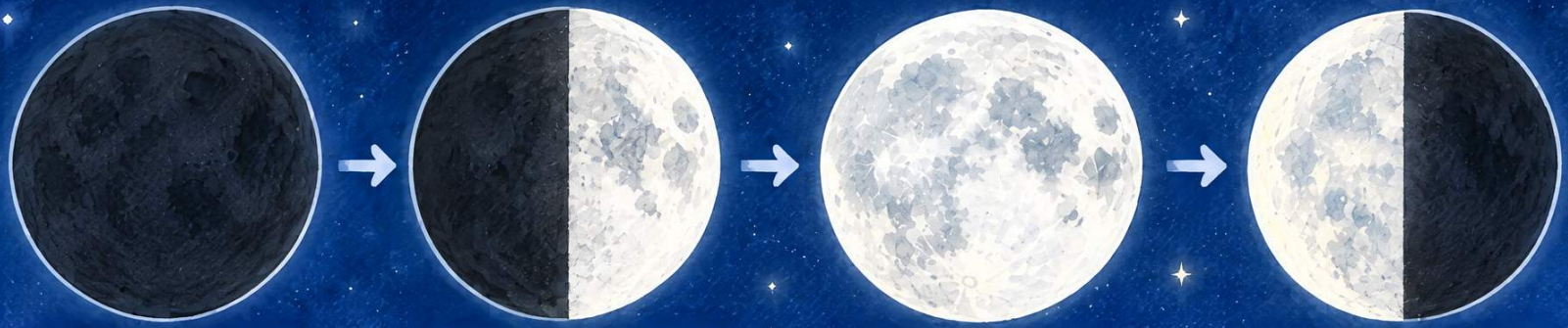
Cutaway diagram. Layers not to scale.

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GINA & OLLIE EXPLORE

THE MOON'S CHANGING LOOK

The Moon reflects sunlight.
As it travels around Earth, we see different amounts of its sunlit half.



The cycle takes about a month.



LOOK & WONDER

Which two pictures show half a bright circle?

Four main phases, shown as seen from the Northern Hemisphere.

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GINA & OLLIE EXPLORE

FLOWERS & POLLINATORS

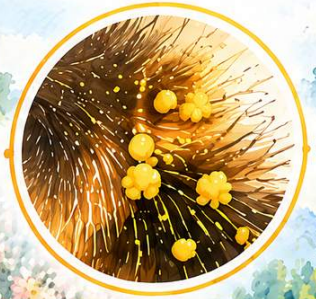
Visiting animals help many flowers make seeds.

1 VISIT A FLOWER

Bees come for nectar and pollen.

2 CARRY POLLEN

Pollen can stick to a bee's body.



3 VISIT AGAIN

Some pollen rubs onto another flower of the same kind.

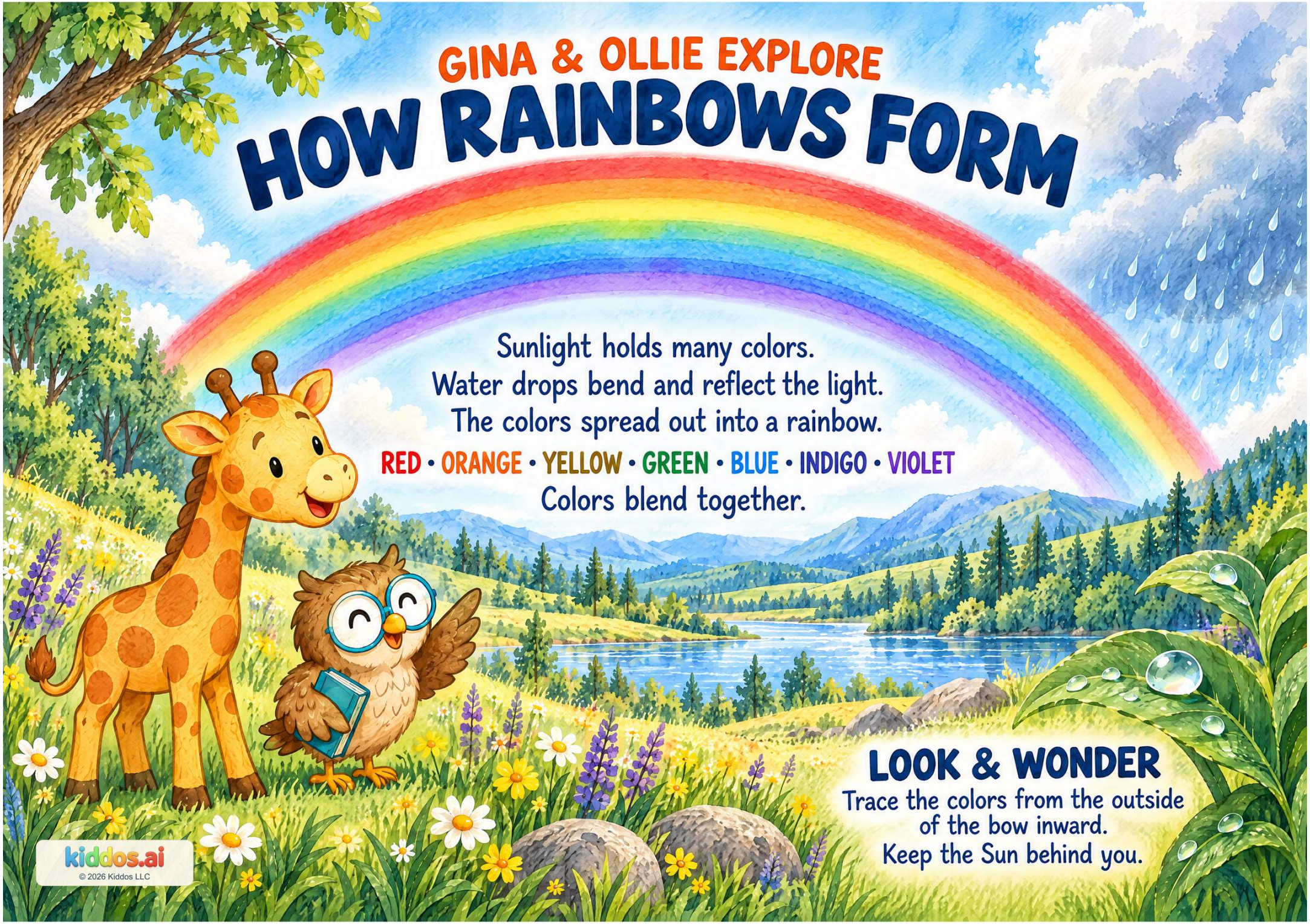
POLLINATION

Moving pollen helps many plants make seeds.

LOOK & WONDER

Can you follow the pollen's journey?
Watch flower visitors without touching them.

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GINA & OLLIE EXPLORE
HOW RAINBOWS FORM
Sunlight holds many colors.
Water drops bend and reflect the light.
The colors spread out into a rainbow.
RED • ORANGE • YELLOW • GREEN • BLUE • INDIGO • VIOLET
Colors blend together.
LOOK & WONDER
Trace the colors from the outside of the bow inward.
Keep the Sun behind you.
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GINA & OLLIE EXPLORE
SEEDS ON THE MOVE
Seeds can travel away from the parent plant.
WIND
Dandelion seeds drift on the wind.
WATER
Coconuts can float to new places.
ANIMALS
Squirrels bury acorns. Some are left to grow.
LOOK & WONDER
Which seed has a tiny parachute?
Three ways seeds can travel.
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GINA & OLLIE EXPLORE

SINK OR FLOAT?

Water pushes up on objects.



FLOAT

The cork stays at the surface.

SINK

The steel spoon rests on the bottom.

Size alone does not tell us what will float.

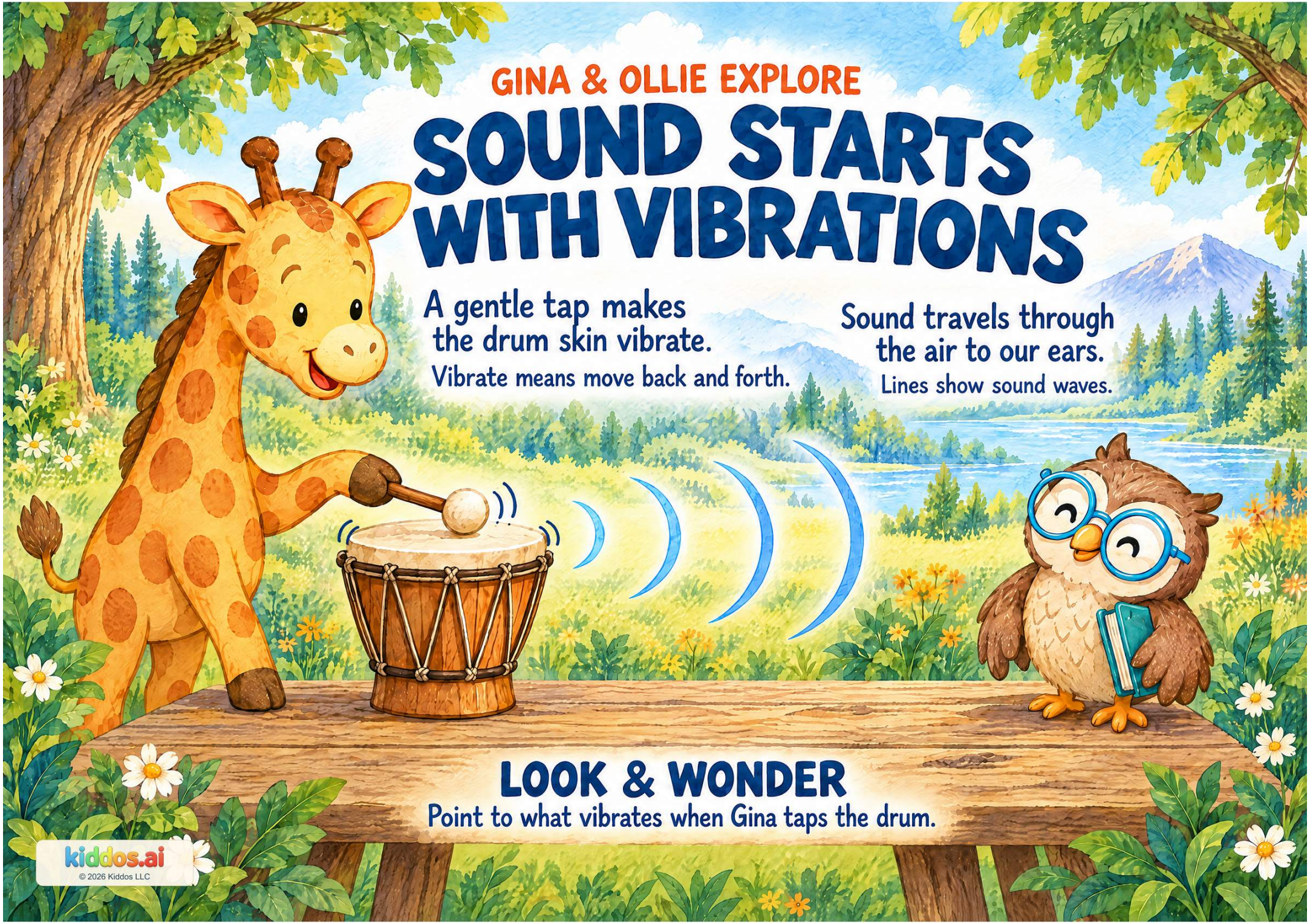
TRY IT

With a grown-up, guess and test safe objects in a shallow bowl.

What happens?

Use an unbreakable bowl and large objects. Keep objects out of mouths. A grown-up stays beside you and empties the water afterward.

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GINA & OLLIE EXPLORE
SOUND STARTS WITH VIBRATIONS
A gentle tap makes the drum skin vibrate.
Vibrate means move back and forth.
Sound travels through the air to our ears.
Lines show sound waves.
LOOK & WONDER
Point to what vibrates when Gina taps the drum.
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GINA & OLLIE EXPLORE

THREE KINDS OF ROCKS

Rocks form in different ways.

IGNEOUS

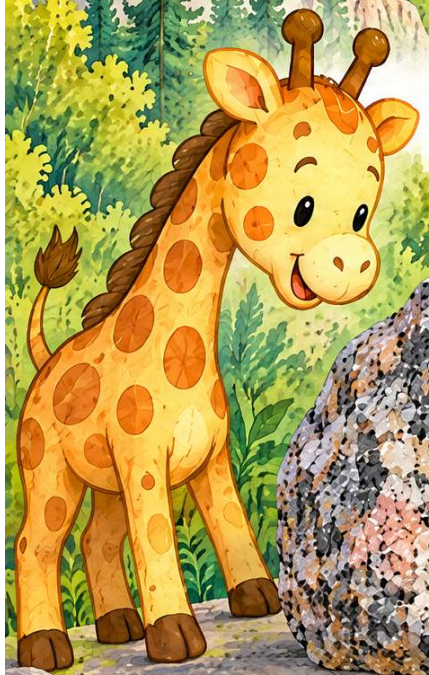
Melted rock cools and hardens.
Granite forms slowly underground.

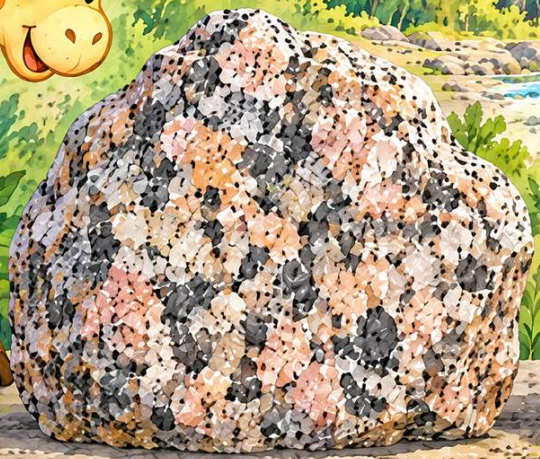
SEDIMENTARY

Sand can press and stick together to make sandstone.

METAMORPHIC

Heat can change rock.
The rock does not melt.











GRANITE

SANDSTONE

MARBLE

LOOK & WONDER

Which rock looks sandy? Which looks speckled?

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GINA & OLLIE EXPLORE
WATER CAN CHANGE
SOLID
Ice keeps its shape.
LIQUID
Water flows and takes the shape of its container.
GAS
Water vapor is invisible in the air.
EVAPORATION
Warming can melt ice. Liquid water can evaporate.
LOOK & WONDER
Which form can you pour?
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GINA & OLLIE EXPLORE

PUSHES AND PULLS

A push or a pull is a force.



PUSH

Gina pushes the ball away.

PULL

Ollie pulls the cart closer.

Arrows show the force on each object.

Forces can change how things move.

LOOK & WONDER

Which object is being pulled?

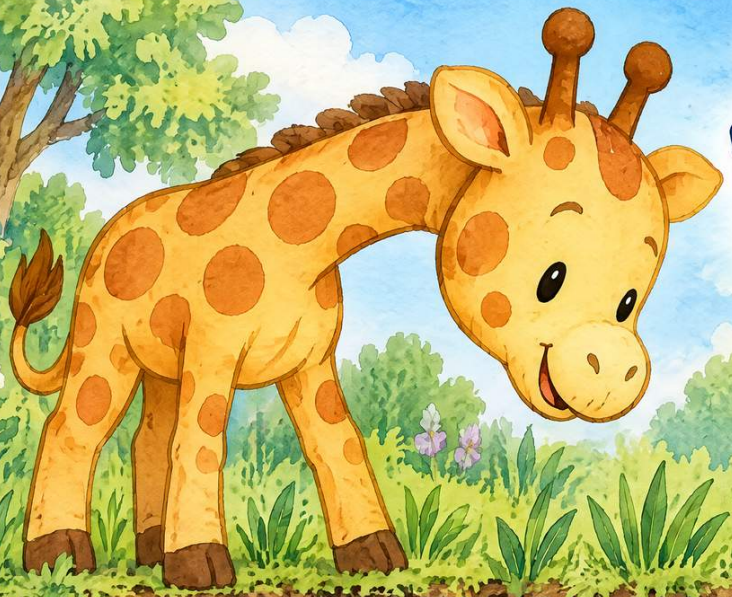
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GINA & OLLIE EXPLORE
A SIMPLE FOOD CHAIN
Follow one path of energy.
SUNLIGHT
GRASS
Grass uses sunlight to make food.
RABBIT
Rabbits eat grass.
FOX
Foxes can eat rabbits.
Food arrows point from food to eater.
This is one example. Animals can eat other foods, too.
LOOK & WONDER
Trace the food arrows from grass to fox.
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GINA & OLLIE EXPLORE

WHAT'S IN SOIL?

A whole world beneath our feet.





MINERAL BITS

Tiny pieces of rock are mixed into soil.

DECAYING LEAVES

Old plant material breaks down.

AIR + WATER

Small spaces between soil pieces hold air and water.



ENLARGED VIEW

LIVING THINGS

Roots and many small animals live in soil.

LOOK & WONDER

Can you find a root, a worm and a piece of leaf?

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GINA & OLLIE EXPLORE

HOW RAMPS HELP

A ramp is a sloping surface.
A gentle ramp can help us move a load up with less force.

A LONGER WAY UP

The load travels farther than a straight lift.
The ramp supports the load along the way.



LOOK & WONDER

Trace the sloping path from the ground to the platform.

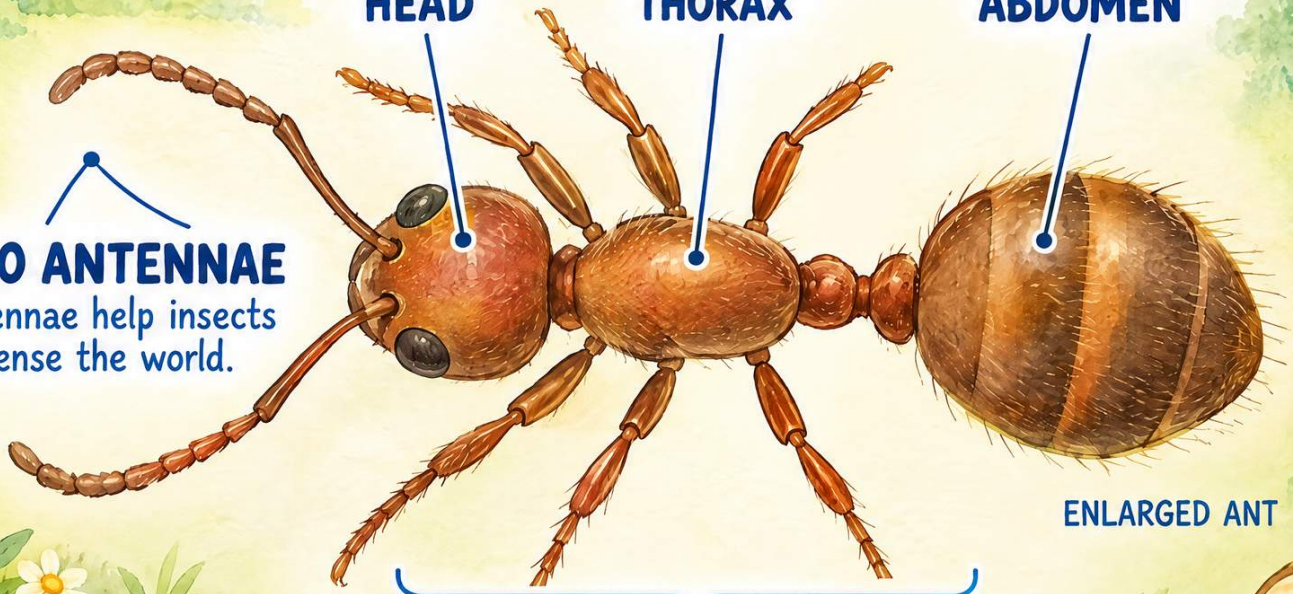
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GINA & OLLIE EXPLORE

ALL ABOUT INSECTS

Look closely at an adult insect.

THREE MAIN BODY PARTS



TWO ANTENNAE
Antennae help insects sense the world.

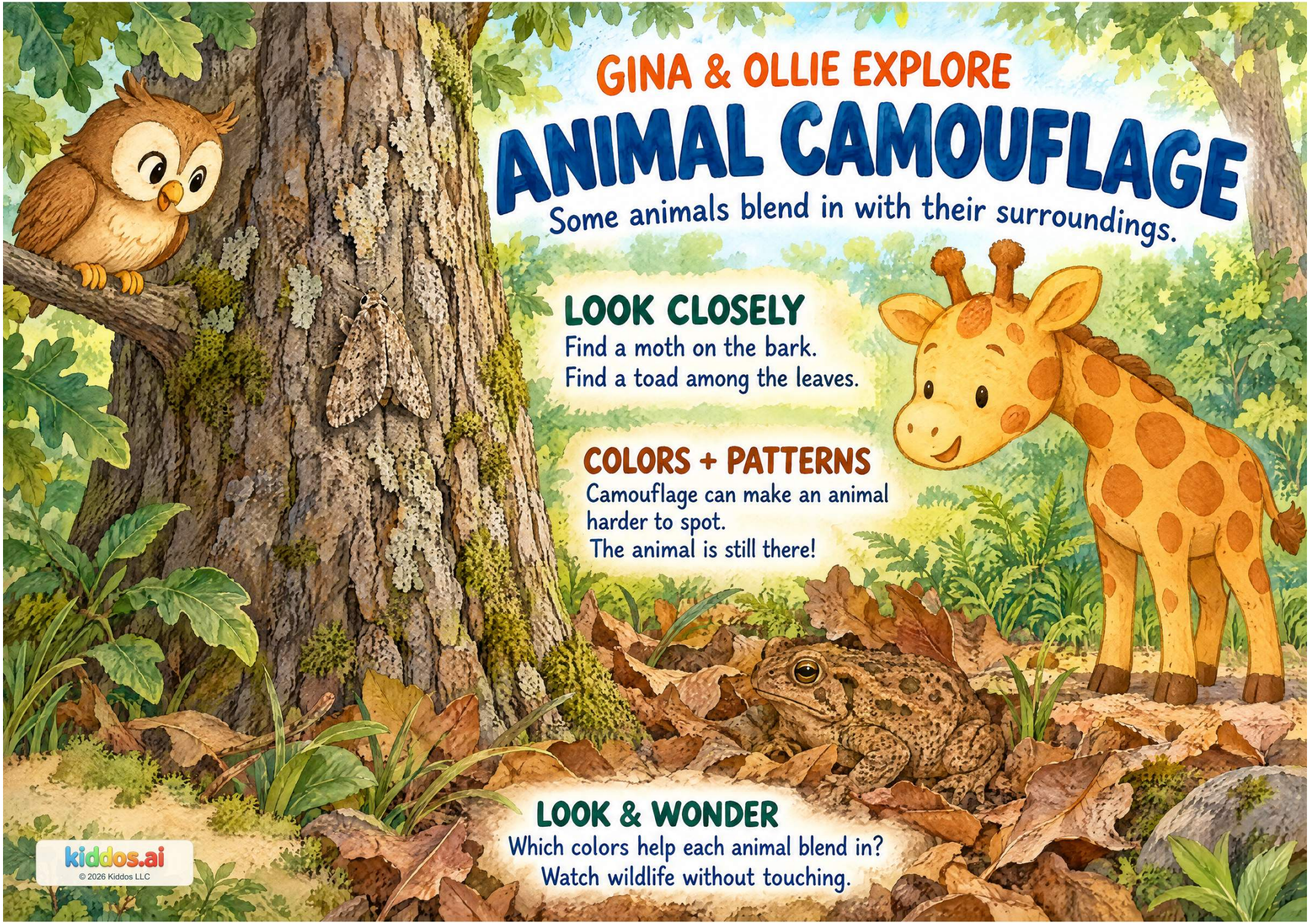
ENLARGED ANT

SIX LEGS
All six legs join the thorax.

LOOK & WONDER

Can you count three legs on each side?

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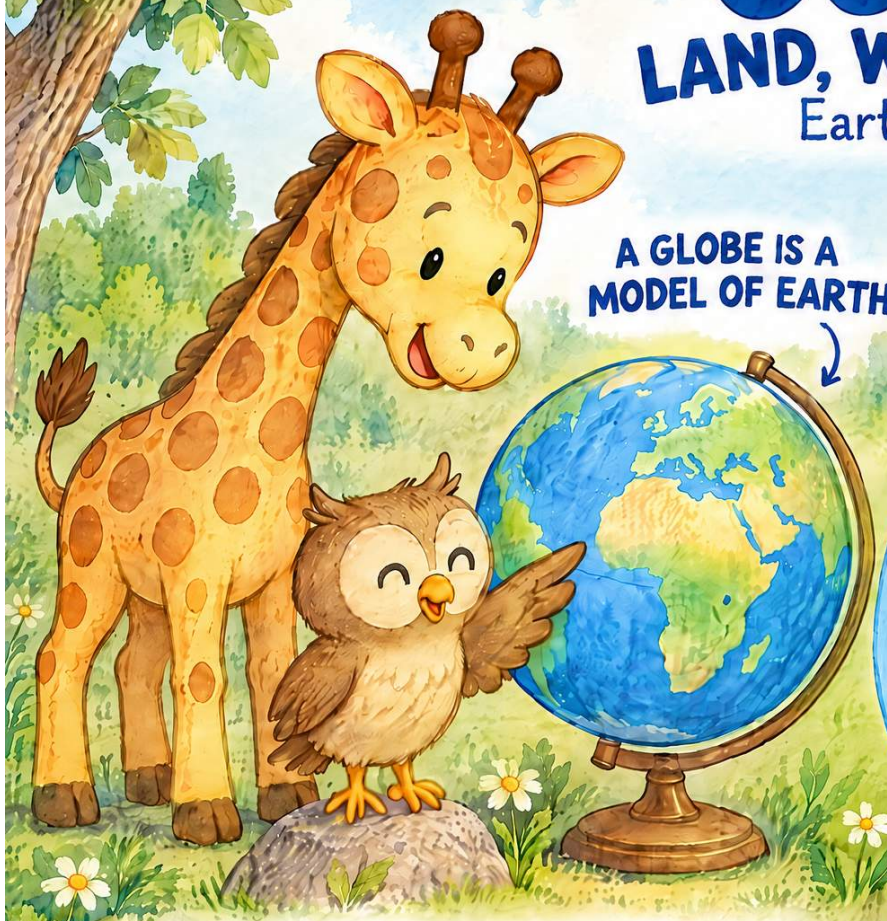

GINA & OLLIE EXPLORE
ANIMAL CAMOUFLAGE
Some animals blend in with their surroundings.
LOOK CLOSELY
Find a moth on the bark.
Find a toad among the leaves.
COLORS + PATTERNS
Camouflage can make an animal harder to spot.
The animal is still there!
LOOK & WONDER
Which colors help each animal blend in?
Watch wildlife without touching.
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GINA & OLLIE EXPLORE

OUR EARTH

LAND, WATER & CONTINENTS

Earth is our home planet.



A GLOBE IS A MODEL OF EARTH

A MAP IS A FLAT PICTURE OF EARTH

SEVEN CONTINENTS

Continents are large regions of land.



Antarctica is land mostly covered by thick ice.

This map uses the seven-continent model.

MORE WATER THAN LAND

About 7 in 10 parts of Earth's surface are water.



LOOK & WONDER

Find land. Find water. Which continent do you live on?

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