

HOW IS A RAINBOW MADE?

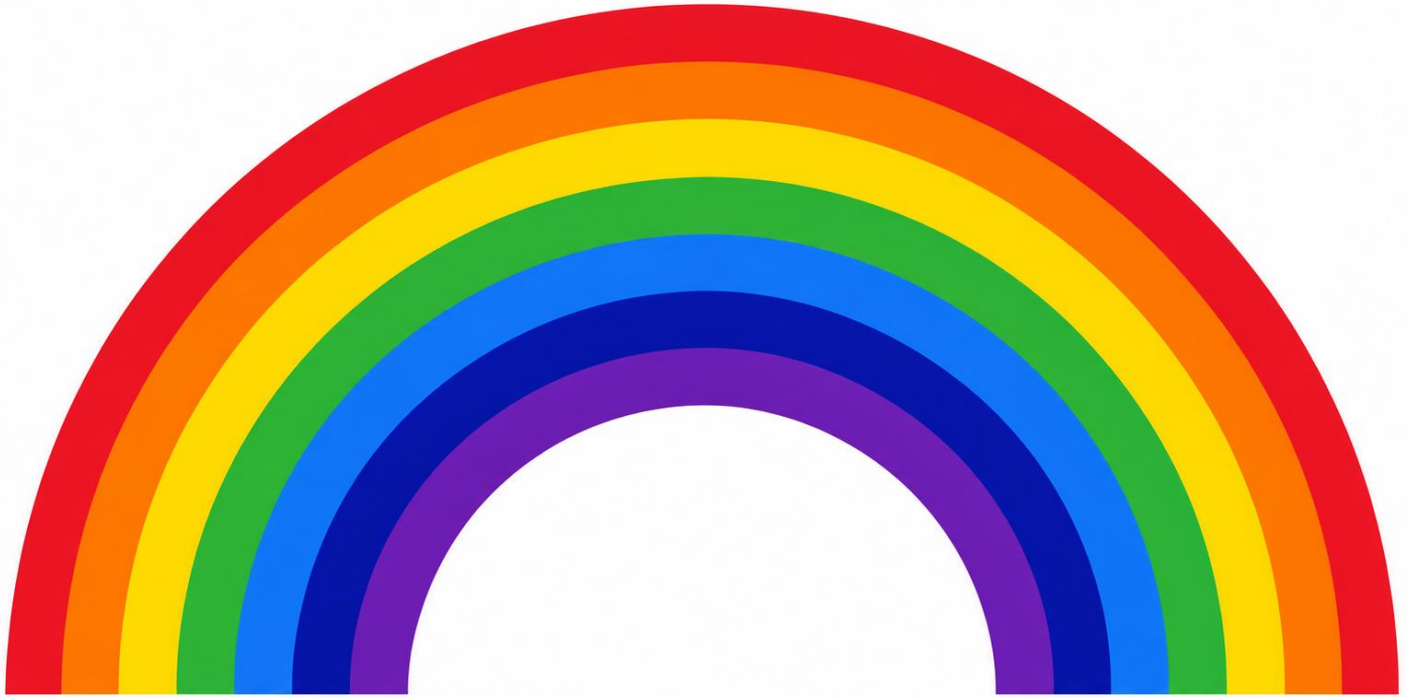


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Colors of the Rainbow

A rainbow always shows its colors in the same order!



Red • Orange • Yellow • Green • Blue • Indigo • Violet

☆ Did you know?

The order of rainbow colors never changes — red is always on the outside, and violet is always on the inside!

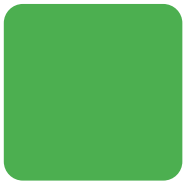
Put the Colors in Order

Directions: Color each circle in rainbow order, from 1 to 7



1 = first color • 7 = last color

Color Bank — here are your 7 colors (not in order!):



Green



Violet



Red



Indigo



Yellow

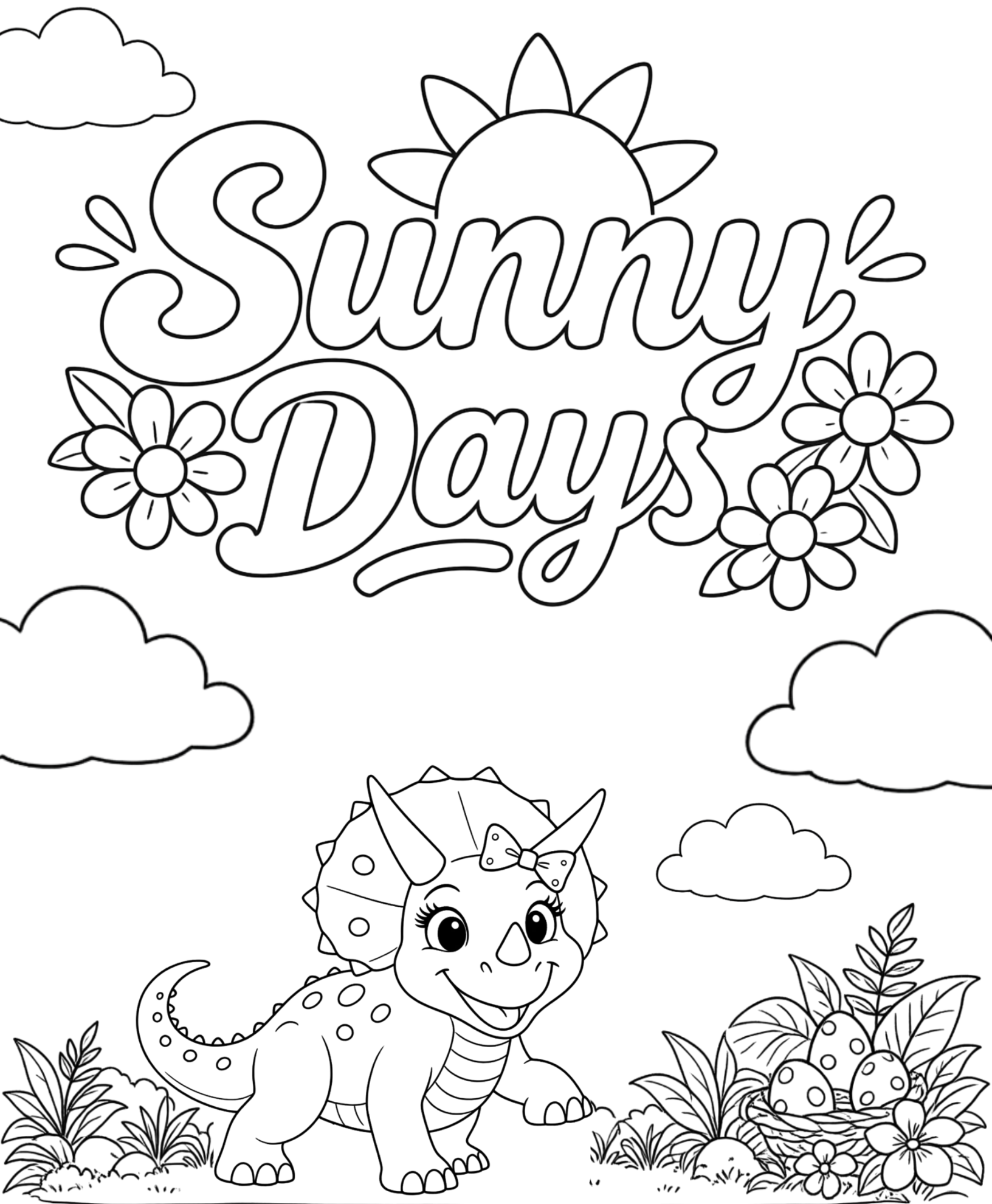


Blue



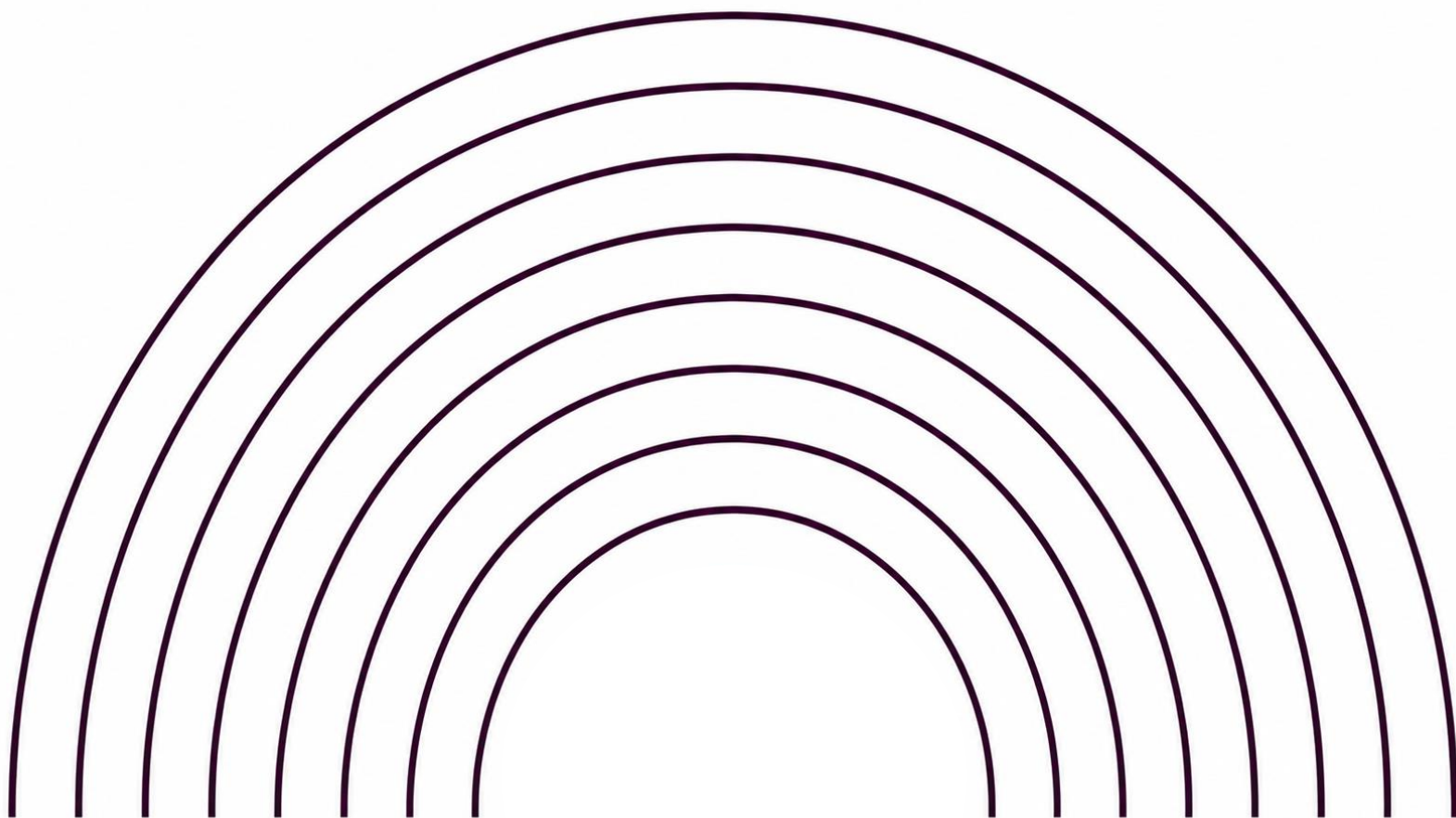
Orange





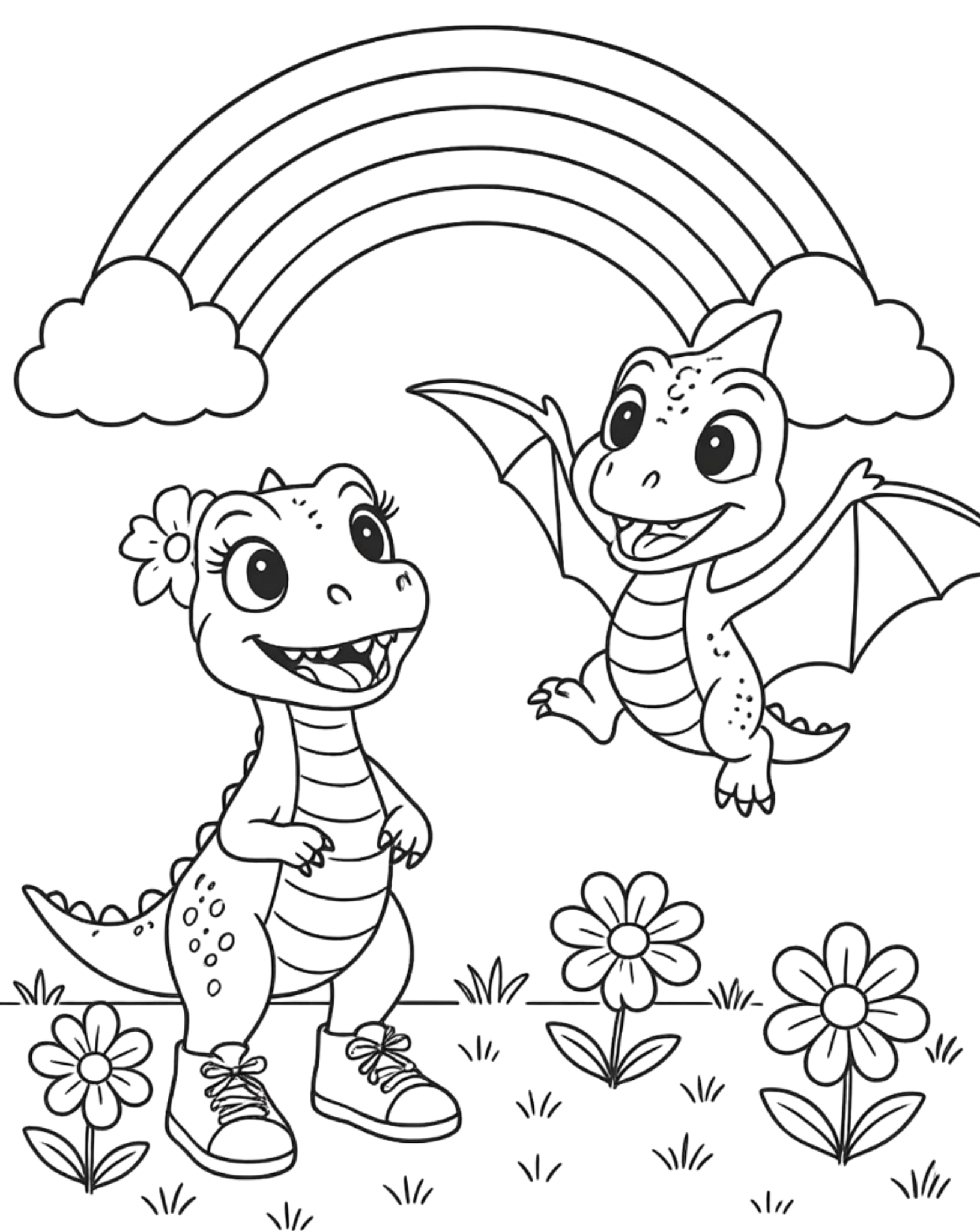
Color Your Own Rainbow!

Directions: Use the color order to fill in your rainbow!



Red • Orange • Yellow • Green • Blue • Indigo • Violet





How Does a Rainbow Form?

1

Sunlight looks white — but it's really made of every every rainbow color, all mixed together!

2

When sunlight passes through tiny drops of water in the air, it bends.

3

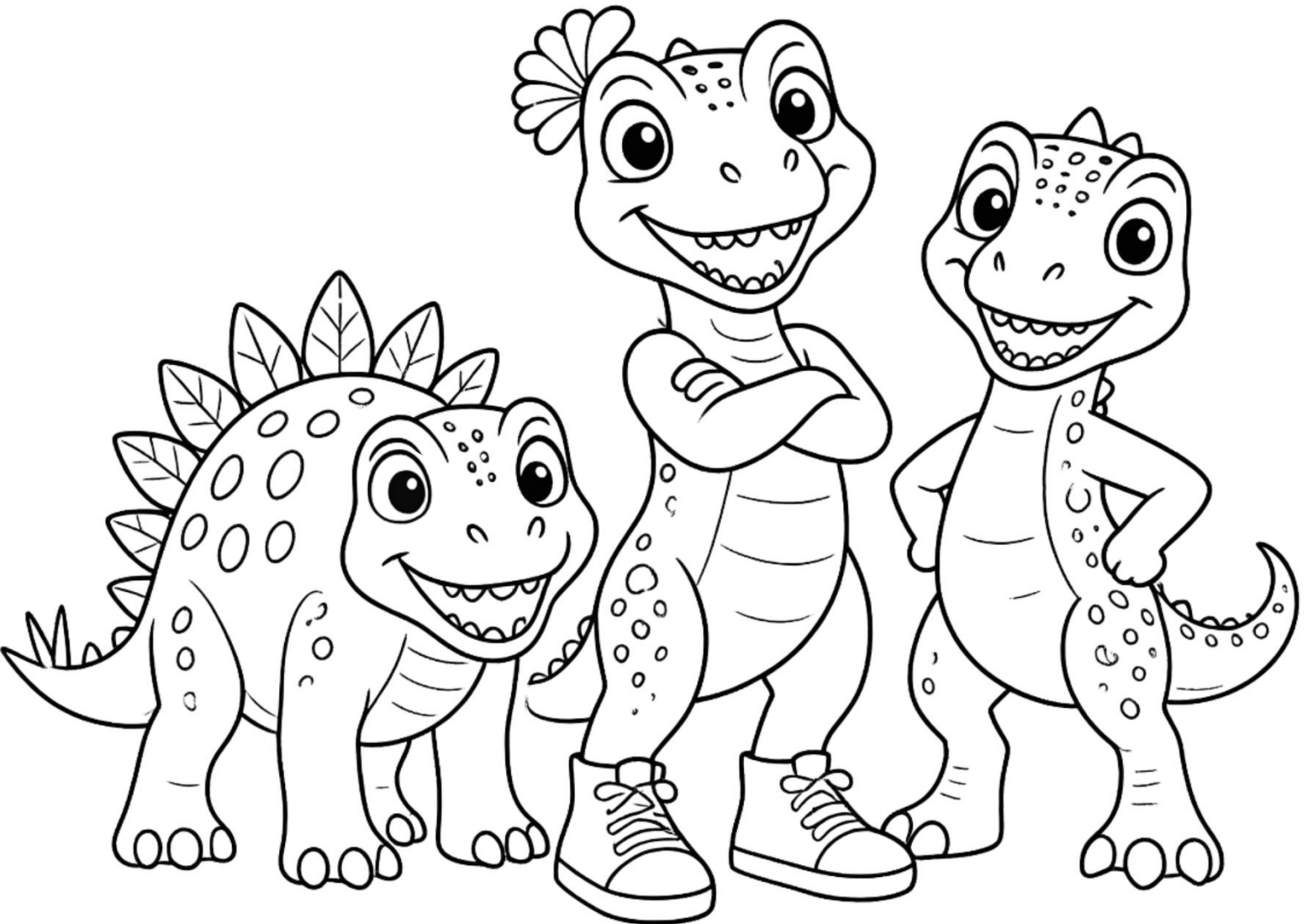
Bending the light spreads all the colors apart — and that's how we see a rainbow!



Watch Cassie explain how sunlight and raindrops work together to make all the beautiful colors of a rainbow!



ROAR.
STOMP.
REPEAT.



Make Your Own Rainbow!

Directions: Ask a grown-up to help you with this experiment!

What You Need:

A clear glass of
water

A small mirror

A piece of white
paper

A sunny window
window

What do you think will happen? _____

1

Ask a grown-up to fill the glass with water and lean the mirror inside, against the edge.

2

Set the glass in bright sunlight, with the white paper nearby to catch the light.

3

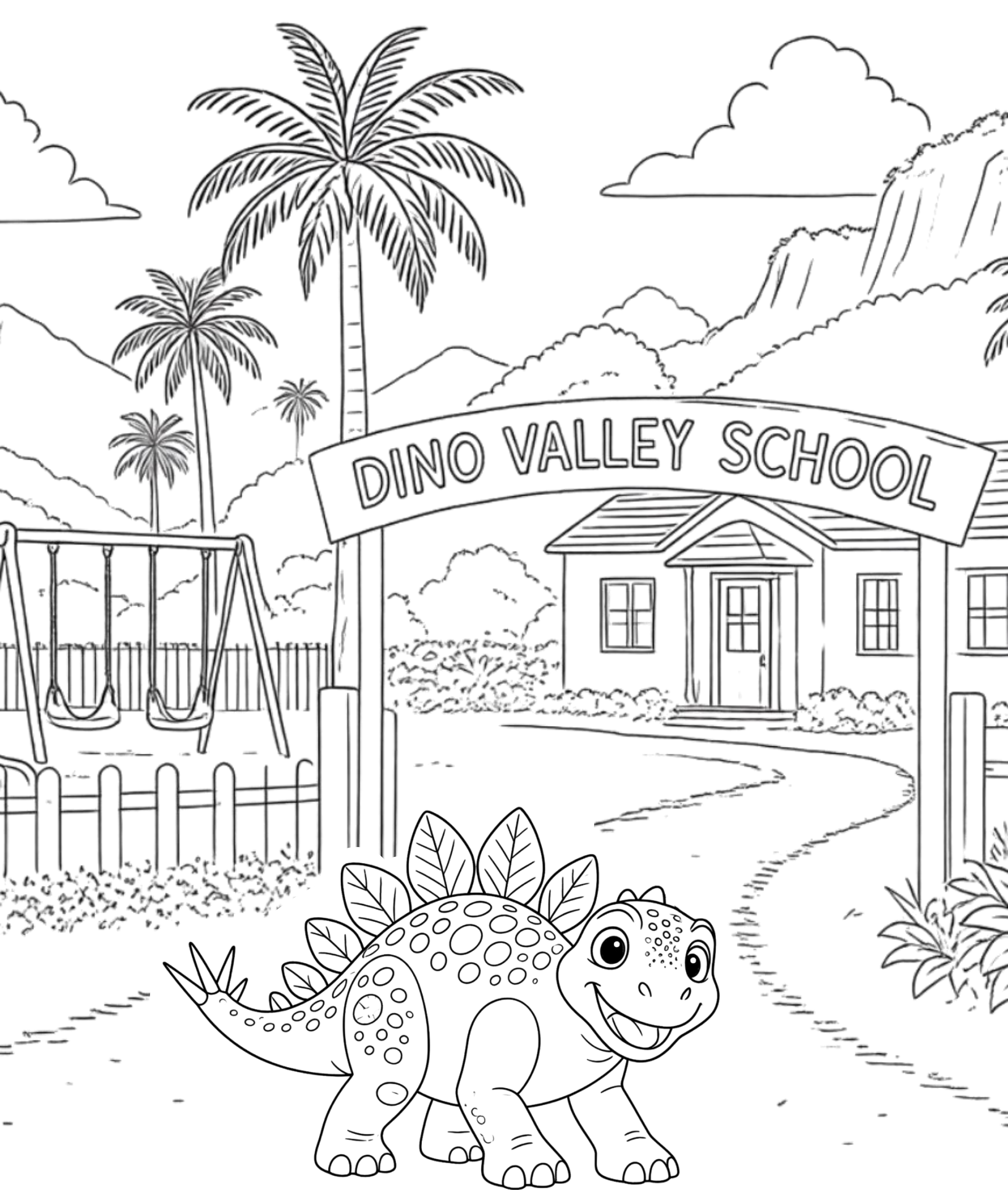
Slowly tilt the mirror until a rainbow appears on the paper!

4

What do you notice?
What colors do you see?

*Safety: Always do this experiment with a grown-up nearby.
nearby.*







Stained-Glass Rainbow

Directions: Ask a grown-up to help you with this activity!

What You Need:

Clear contact
paper

Colorful tissue
paper

Scissors

A sunny window

What do you think will happen when sunlight shines through the colors? _____

1

Ask a grown-up to cut two pieces of clear contact paper into a rainbow (arch) shape.

2

Tear or cut red, orange, yellow, green, blue, and purple tissue paper into small pieces.

3

Stick the colorful pieces onto the sticky side of one rainbow shape. Try putting the colors in rainbow order!

4

Place the second piece of contact paper on top to seal your rainbow. Hang it in a sunny window and watch the light shine through!

What do you notice? Which colors look brightest when the sunlight shines through?



Little science note: Light can travel through some materials, like thin tissue paper. These are called translucent materials!

BIG DREAMS. BIG ADVENTURES.



Walking Rainbow

Directions: Ask a grown-up to help you with this activity!

What You Need:

6 clear cups

Water

Red, yellow &
blue food
coloring

Paper towels

What do you think will happen? _____

1

Put the six cups in a row. Fill cups 1, 3, and 5 about halfway with water.

2

With a grown-up's help, add red food coloring to cup 1, yellow to cup 3, and blue to cup 5. Leave the other cups empty.

3

Fold paper towels into long strips. Put one end in a cup with colored water and the other end in the empty cup beside it. Keep connecting the cups.

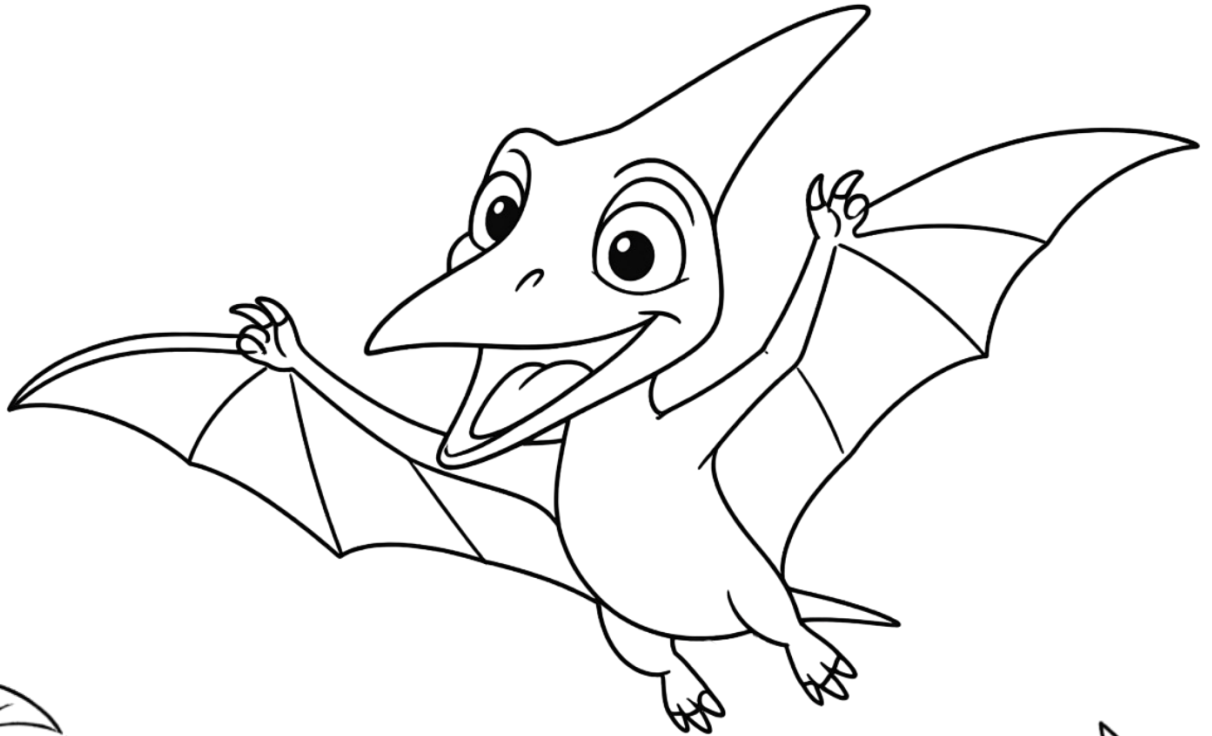
4

Wait and watch! The colored water will slowly “walk” up the paper towels and into the empty cups.

What happened? What new colors appeared? Can you find orange, green, and purple?

★ Little science note: Water can travel through tiny spaces in the paper towel. This is called **capillary action**. When one colored water meets another, the colors mix and make new colors — just like mixing paints!

☆ Let Your ☆
Dreams Soar



Rainbow Detective

Directions: Which of these are real places to see a rainbow? Check the ones you think are true!

1

In the sky after it rains, when the sun comes out

☐

2

In a dark closet with no light

☐

3

In the spray of a garden hose or sprinkler

☐

4

Under a blanket at night

☐

5

In soap bubbles

☐

6

In a bowl of water with no sunlight

☐

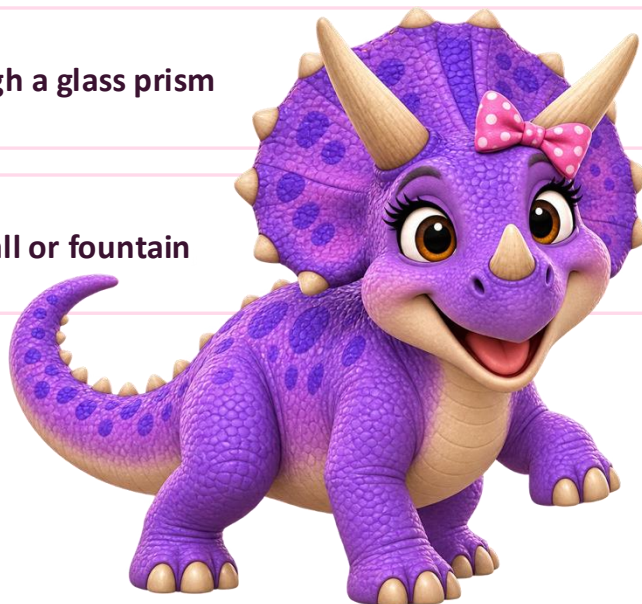
7

Looking through a glass prism

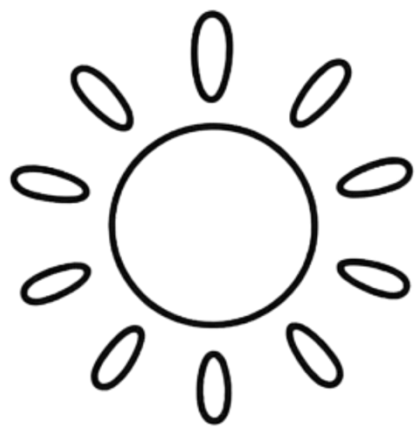
☐

8

Near a waterfall or fountain

☐

Answer Key (for grown-ups):
Real rainbow spots: 1, 3, 5, 7, 8. Not real:
2, 4, 6 — there's no light and water
working together to make a rainbow!



Rainbow Color Hunt

Directions: Look around! Check off every rainbow color you find.



Find something **RED**

☐

Find something **ORANGE**

☐

Find something **YELLOW**

☐

Find something **GREEN**

☐

Find something **BLUE**

☐

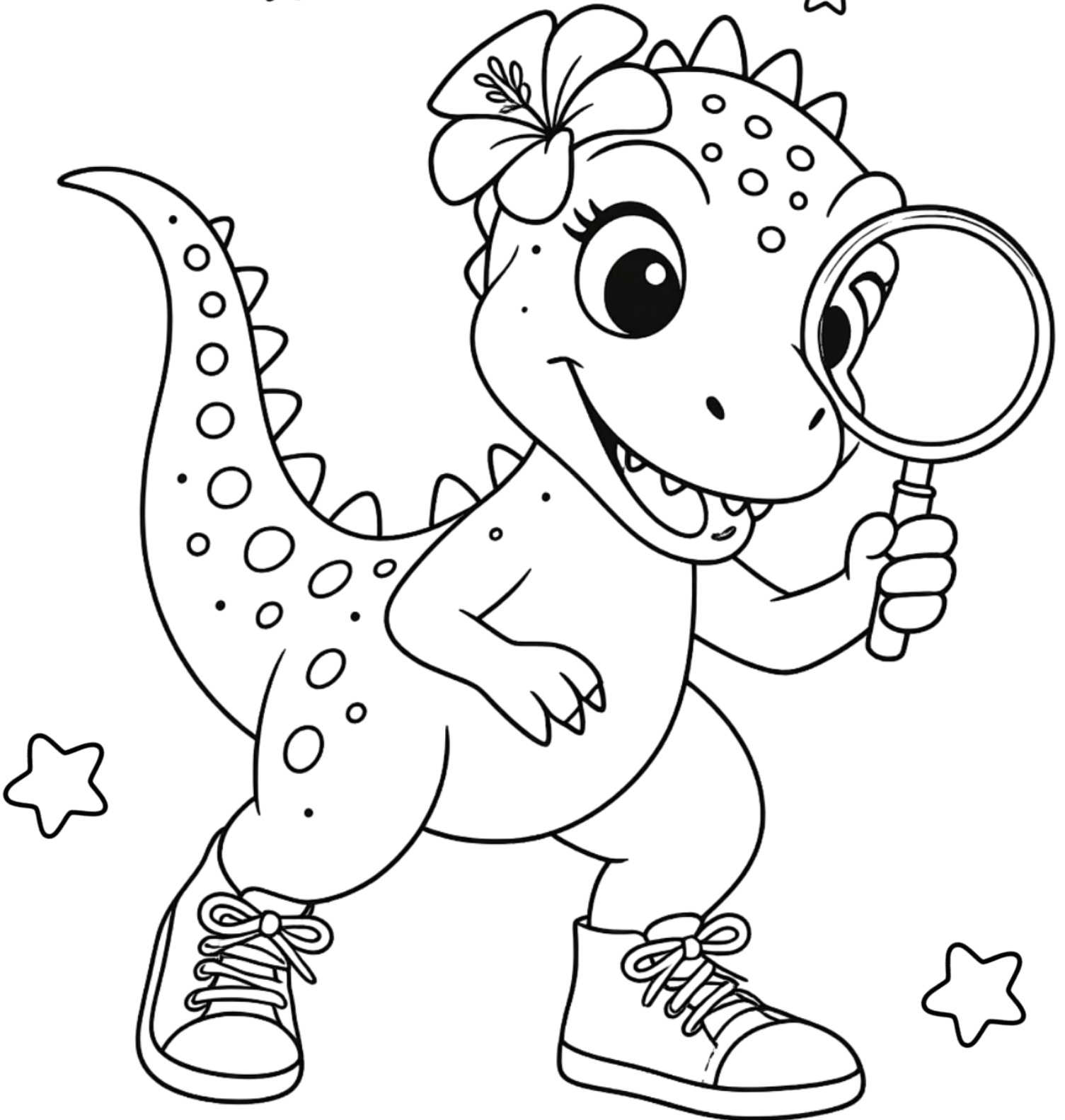
Find something **INDIGO**

☐

Find something **VIOLET**

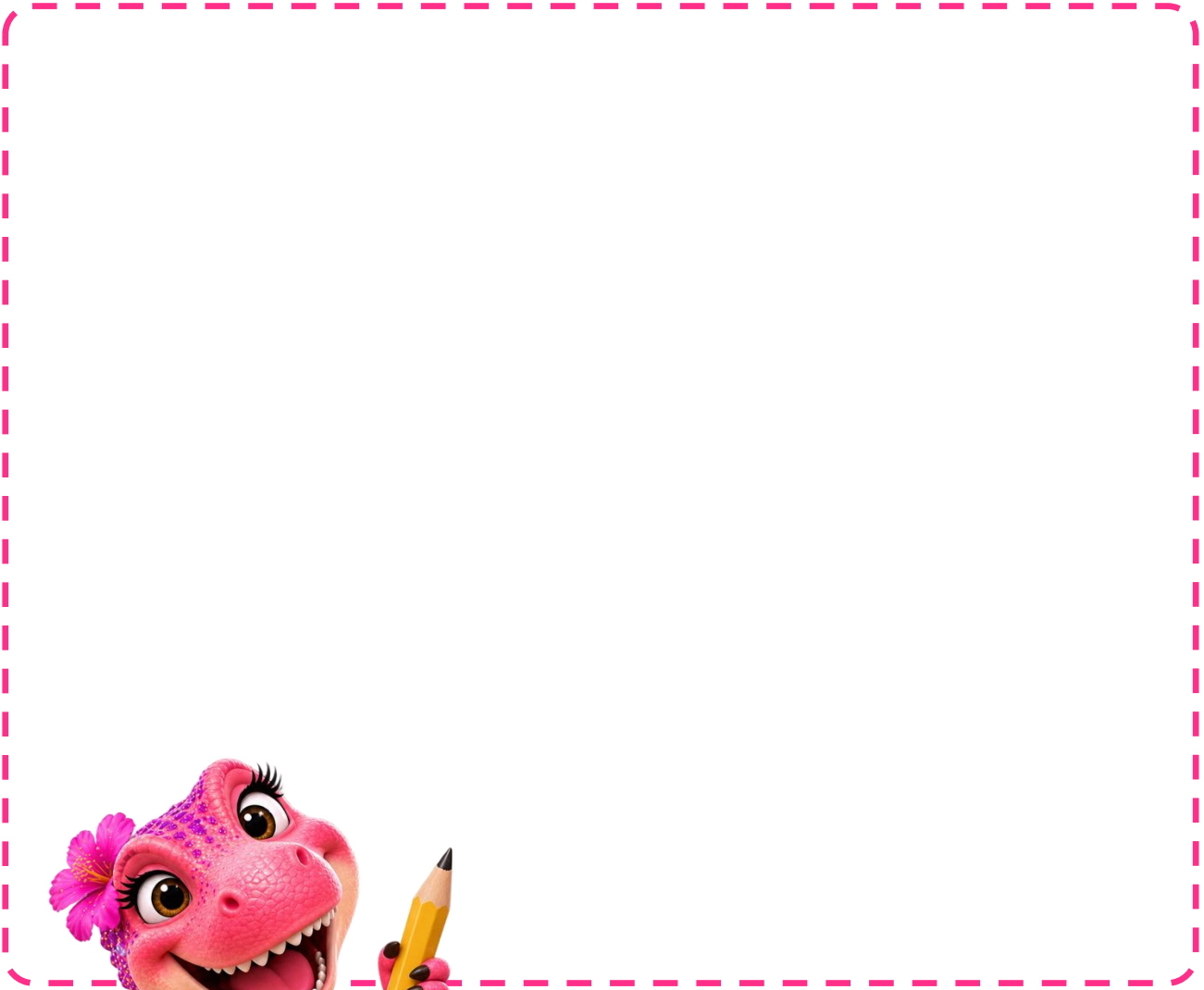
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☆
Let's Explore! ☆
☆ ☆



Draw What You Observed

Directions: Draw the rainbow you saw. What colors did you see?

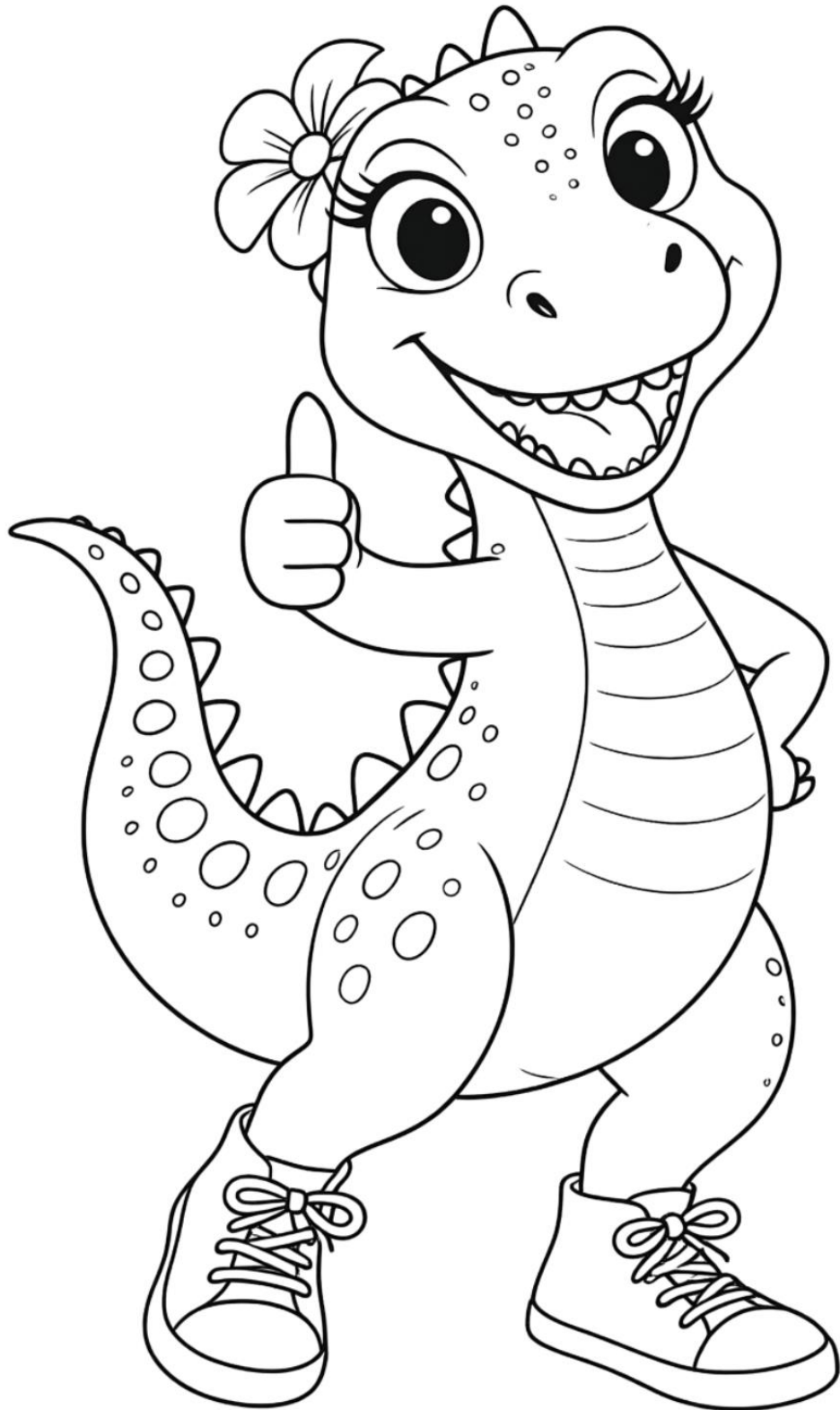


What do you notice?

What colors do you see?

What shape was it?

☆
You Rock!
☆



Rainbow Scientist!

This certifies that

observed, experimented, and explored how rainbows form with
Cassie the Dinosaur — what a super scientist!



Cassie

Date

Signature



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with
Cassie