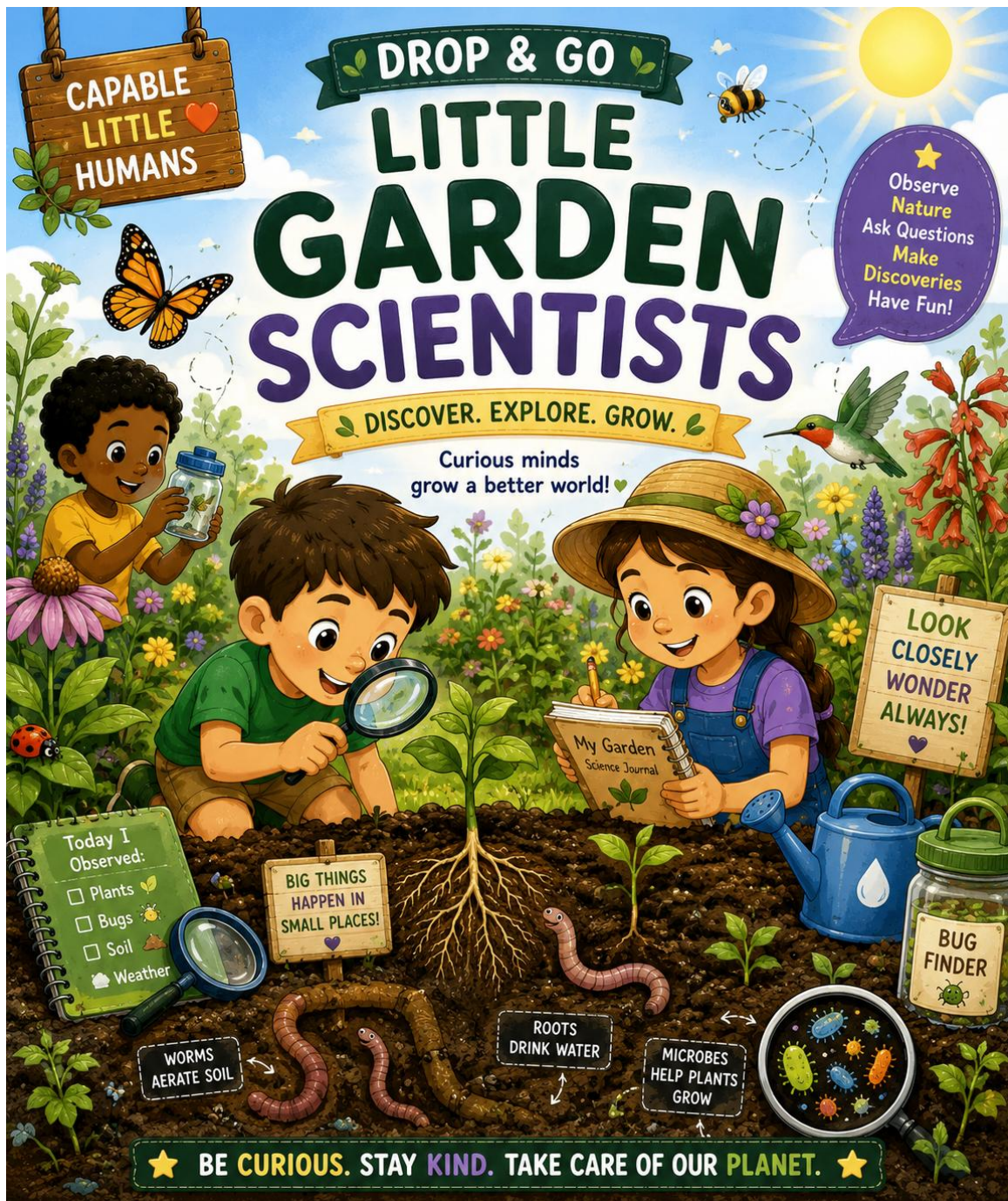


DROP & GO — LITTLE GARDEN SCIENTISTS

Curious Minds. Growing Discoveries.



- Dig. Discover. Grow.
 - Every Garden Is a Science Lab.
 - Curious Kids Grow Amazing Things.
 - Little Scientists Make Big Discoveries.
-

INTRODUCTION — WHAT IS A GARDEN SCIENTIST?

Garden scientists explore how plants, bugs, soil, sunlight, and water work together.

A little garden scientist:

- asks questions
- observes nature
- learns from mistakes
- explores outdoors
- protects pollinators
- studies plants and bugs
- helps gardens grow

Science is about:

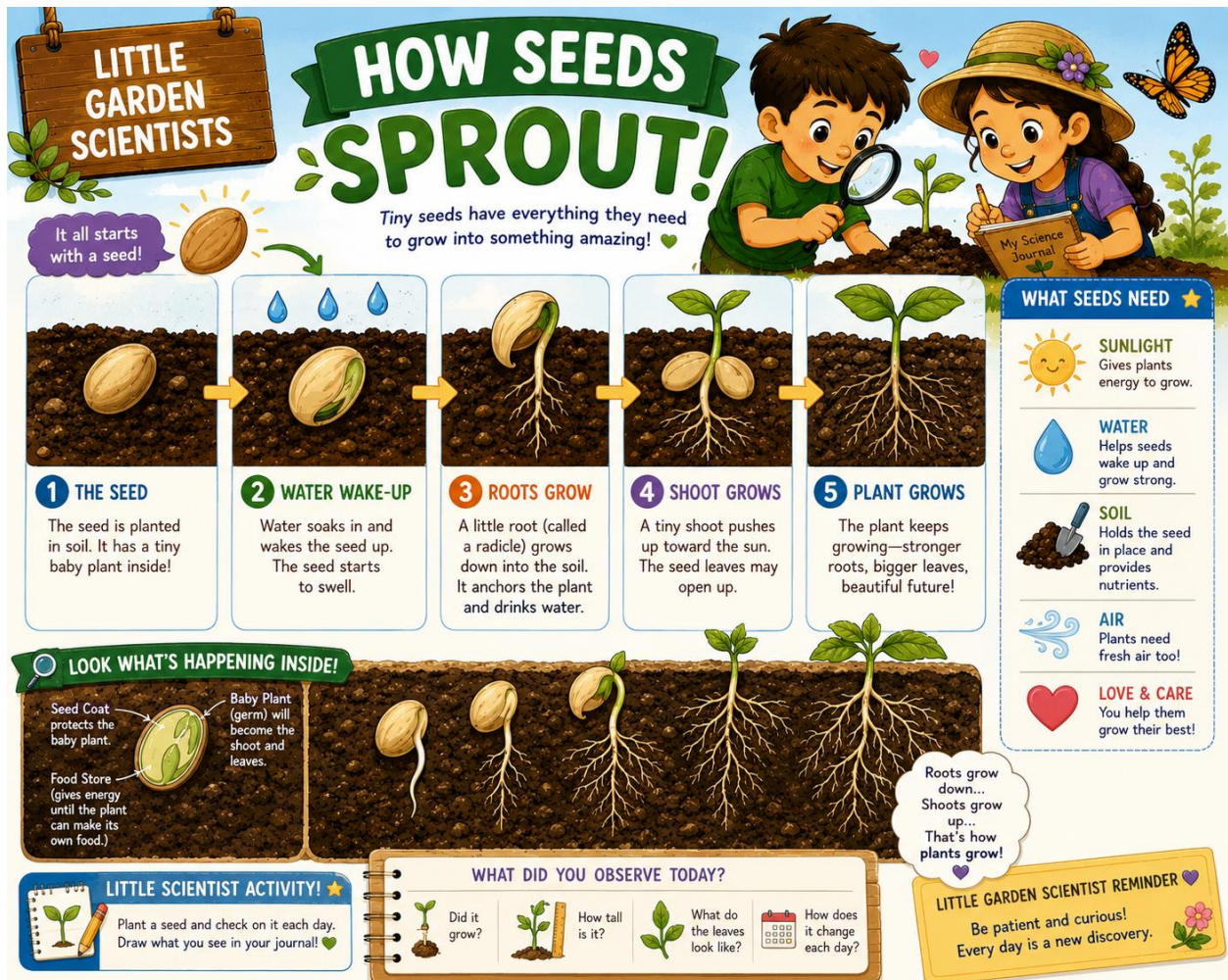
- curiosity
- discovery
- learning
- patience
- observation

Every garden is full of amazing discoveries waiting to happen.

LITTLE GARDEN SCIENTIST RULES

- ☐ Ask questions ☐ Observe carefully ☐ Be gentle with bugs and plants ☐ Keep a nature journal
- ☐ Learn from mistakes ☐ Explore safely ☐ Stay curious ☐ Have fun discovering

SECTION 1 — HOW SEEDS SPROUT



What Seeds Need

☐ Water ☐ Sunlight ☐ Soil ☐ Air ☐ Time

Seed Observation Challenge

Plant a seed and watch what happens!

☐ Day 1 ☐ Day 3 ☐ Day 5 ☐ Day 7 ☐ Day 10

What Did You Notice?

SECTION 2 — WORMS HELP SOIL



Why Worms Matter

Worms help:

- loosen soil
- move nutrients
- help roots grow
- improve gardens

Worm Detective Activity

☐ Find a worm ☐ Observe carefully ☐ Draw the worm ☐ Return it gently

Worm Facts

- Worms help healthy gardens
- Worm tunnels help water move through soil

- Worms recycle old plant material



SECTION 3 — POLLINATOR PROTECTORS



Pollinators Help Plants Grow

Pollinators include: ☐ Bees ☐ Butterflies ☐ Hummingbirds ☐ Beetles

Pollinator Spotting Checklist

☐ Bee ☐ Butterfly ☐ Ladybug ☐ Dragonfly ☐ Caterpillar

Pollinator Protection Tips

☐ Plant flowers ☐ Avoid hurting bugs ☐ Leave water for pollinators ☐ Grow native plants

SECTION 4 — SUNLIGHT & WATER EXPERIMENT



SUNLIGHT & WATER EXPERIMENT!

Scientists test ideas by observing and comparing!

Plants need sunlight and water to grow. But what happens when they don't get enough?



Let's be plant detectives!

WHAT YOU NEED:

- 2 small plants (same kind)
- 2 pots
- Potting soil
- Water
- Sunlight
- A notebook
- A caring heart

PLANT IN SUNLIGHT + WATER

Lots of sunlight each day

Water regularly

VS.

PLANT IN SHADE + LESS WATER

Little sunlight (or no direct sun)

Less water (or none)

I feel happy and strong!

I feel tired and weak.

WHAT WE LEARNED

- Plants that get sunlight and water grow strong!
- Plants without enough light or water may grow slow or wilt.
- Every plant has needs—just like we do!

SCIENTIST TIPS

- Most plants need 6–8 hours of sunlight each day.
- Check the soil—water when the top feels dry.
- Observe your plant every day!
- Be patient. Growth takes time!

HOW TO DO IT:

- Plant both plants in similar pots with the same soil.
- Place one plant in a sunny spot. Place the other in a shady spot.
- Water the sunny plant regularly. Give less (or no) water to the shady plant.
- Observe each plant every day for one week.
- Draw and write what you see in your journal!

TRY MORE EXPERIMENTS!

- Too much water?** What happens when a plant gets too much water?
- Different amounts?** Try giving different amounts of water.
- Plant foods?** What happens when you add plant food?
- Different soils?** Which soil helps plants grow best?

MY SCIENCE JOURNAL

Today I observed... _____

I noticed... _____

I wonder... _____

Next time I will try... _____

CURIOUS MINDS. KIND HEARTS. STRONG PLANET.

Experiment Time!

Try growing:

- one plant in sunlight
- one plant in shade

What happens?

Water Experiment

Try:

- watering one plant more
- watering one plant less

Observe carefully!

☐ Leaves changed ☐ Soil changed ☐ Plant grew taller ☐ Plant looked healthier

SECTION 5 — ROOTS UNDERGROUND



What Roots Do

Roots help plants:

- drink water
- stay anchored
- absorb nutrients
- grow strong



Root Discovery Challenge

Look closely at: ☐ Grass roots ☐ Weed roots ☐ Vegetable roots ☐ Flower roots

Draw a Root System



SECTION 6 — COMPOST SCIENCE



Compost Is Nature Recycling

Compost helps turn:

- leaves
- vegetable scraps
- grass
- old plants

into healthy soil.

Compost Sorting Challenge

Can Compost

☐ Leaves ☐ Fruit scraps ☐ Vegetable scraps ☐ Grass clippings

Do NOT Compost

☐ Plastic ☐ Metal ☐ Trash ☐ Glass

SECTION 7 — WEATHER WATCHERS

LITTLE GARDEN SCIENTISTS

Look up! Look around! Nature is always doing something!

WEATHER WATCHERS

Gardens change with the weather!

Weather affects plants, animals, soil, and us! Let's observe, learn, and take care of our gardens in every kind of weather.

SUNNY DAYS

Warm sunshine helps plants grow big and strong!

- Plants grow faster.
- Soil can dry out.
- Pollinators visit flowers.
- We need to water plants.

Look for:

- New growth
- Busy bugs
- Dry soil

RAINY DAYS

Rain is like a drink for our garden!

- Rain helps plants grow.
- Worms come out to play.
- Puddles form.
- Roots drink the water.

Look for:

- Worms
- Puddles
- Full rain gauge

WINDY DAYS

Wind can be gentle or strong!

- Wind spreads seeds.
- Strong roots help plants stand tall.
- Some plants need protection.
- Wind can bring cool air.

Look for:

- Flying seeds
- Bending plants
- Moving leaves

COLD DAYS

Cold days help some plants rest and get ready.

- Some plants sleep in winter.
- Frost can form.
- Animals prepare for the cold.
- We can protect our plants.

Look for:

- Frost
- Bare trees
- Animal tracks

OUR WEATHER TOOLS

These tools help us observe and understand the weather!

- THERMOMETER**
Tells us how hot or cold it is.
- RAIN GAUGE**
Measures how much rain we get.
- WIND SOCK**
Shows us which way the wind is blowing.
- NOTEBOOK**
Write or draw what you see each day.
- MAGNIFYING GLASS**
Helps us look closer at tiny details.

Observe today, understand tomorrow, protect our planet!

MY WEATHER JOURNAL

What's the weather like today? Check the box and draw a picture!

Sunny ☐ Cloudy ☐ Rainy ☐ Windy ☐ Hot ☐ Cold ☐

What did you notice in your garden today?

WEATHER CHANGES, GARDENS GROW!

Rain falls. Water soaks in. → Plants grow. Roots get strong. → Sun shines. Flowers bloom. → Wind blows. Seeds spread.

Every kind of weather has a job to do!

DID YOU KNOW?

- Plants can "feel" changes in the weather!
- Earthworms come up when it's wet.
- Sunlight helps plants make their own food.
- Some seeds need cold weather to start growing.

BE A WEATHER WATCHER!

- Look up at the sky.
- Feel the air.
- Listen to the sounds.
- Watch your garden.
- Record what you see.
- Care for our Earth!

You're a real scientist!

WEATHER TODAY, GROWTH TOMORROW, A HEALTHY PLANET FOREVER!

Weather Changes Gardens

Gardens react to: ☐ Sun ☐ Rain ☐ Wind ☐ Heat ☐ Cold

Weather Tracker

☐ Sunny ☐ Rainy ☐ Windy ☐ Cloudy ☐ Hot ☐ Cool

What Did Your Garden Do?

SECTION 8 — LITTLE GARDEN SCIENTIST CHALLENGES

OBSERVATION CHALLENGE

☐ Observe a flower ☐ Observe a bug ☐ Observe soil ☐ Observe a seed sprout ☐ Observe weather changes

DISCOVERY CHALLENGE

☐ Learn a plant name ☐ Learn a bug name ☐ Discover something underground ☐ Find pollinators ☐ Observe roots

SCIENCE HELPER CHALLENGE

☐ Water plants ☐ Help compost ☐ Protect pollinators ☐ Record observations ☐ Share discoveries with family

SECTION 9 — LITTLE GARDEN SCIENTIST BADGES

SEED SPROUTER BADGE

☐ Earned

WORM WATCHER BADGE

☐ Earned

POLLINATOR PROTECTOR BADGE

☐ Earned

ROOT EXPLORER BADGE

☐ Earned

WEATHER WATCHER BADGE

☐ Earned

COMPOST HELPER BADGE

☐ Earned

DISCOVERY MAKER BADGE

☐ Earned

CURIOUS MIND BADGE

☐ Earned

SECTION 10 — LITTLE SCIENTIST JOURNAL

SOMETHING AMAZING I DISCOVERED

DRAW YOUR FAVORITE BUG

MY FAVORITE PLANT

Why do you like it?

THINGS I WANT TO LEARN ABOUT

SECTION 11 — GROWING CURIOSITY

Scientists:

- ask questions
- test ideas
- make observations
- learn new things every day

Every question helps us understand the world better.

Curiosity is a superpower.

LITTLE GARDEN SCIENTIST PLEDGE

I will: ☐ Stay curious ☐ Observe carefully ☐ Respect nature ☐ Learn from mistakes ☐ Protect pollinators ☐ Explore safely ☐ Ask questions ☐ Keep discovering



FINAL MESSAGE

Nature is full of mysteries waiting to be explored.

Every garden teaches something new.

Every observation is a discovery.

Keep digging. Keep discovering. Keep growing.

The world always needs curious minds.