

# 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.

## LIVING THINGS

Roots and many small animals live in soil.

## AIR + WATER

Small spaces between soil pieces hold air and water.

## ENLARGED VIEW

## LOOK & WONDER

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

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?

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A flowering plant, shown larger to help us see.

# 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.



# 6 NEW SEEDS

Seeds inside the pod can grow into new plants.



## GINA & OLLIE EXPLORE A PLANT'S LIFE CYCLE

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

### FOLLOW THE GROWTH

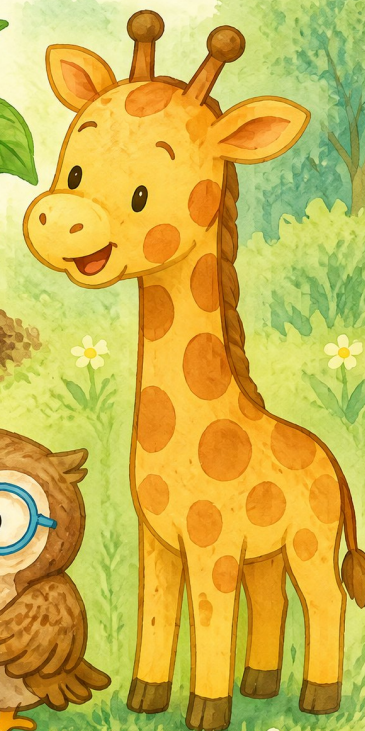
Start with the seed. Tell what happens next.

# 5 FLOWERS

Flowers can form fruits or pods.



A simple life cycle of a flowering plant.



# 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.



# 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.