

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.



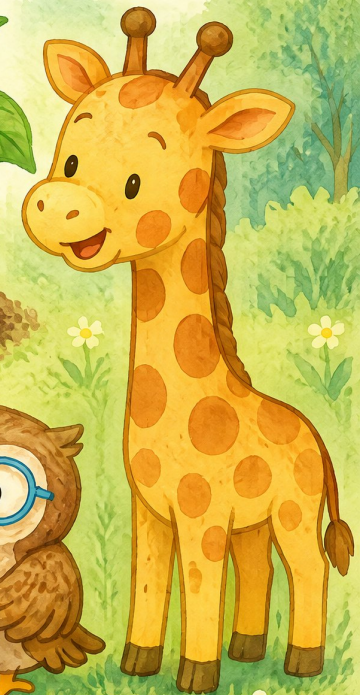
3 SEEDLING

Roots grow down. A shoot grows up.



4 ADULT PLANT

The plant grows more leaves.



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.



6 NEW SEEDS

Seeds inside the pod can grow into new plants.



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.