

Have you ever wondered where plants come from?

Plants produce their young through the **pollination** of flowers and cones.

Pollination is the transfer of **pollen** from the **stamen** (male part) of a flower to the **pistil** (female part) that contains the unfertilized seeds inside.

Because plants can't move around, they can't get close enough to each other to transfer pollen on their own. That's why they rely on helpers such as bees to transfer pollen for them!

POLLINATION 3. Bee flies to another 1. A bee visits flower. a flower to collect nectar and pollen. pollen 4. Bee deposits pollen on pistil. Pollen on stamen sticks pollento the bee. stamen (female) 5. Pollen fertilizes

Once the pollen fertilizes the seeds, the seeds mature. These seeds then can germinate into seedlings.

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Wind Pollination

Trees that produce cones instead of flowers are called "conifers." They make male pollen cones and female seed cones. Without colorful flowers to attract pollinators, they depend on the wind to pollinate the cones.

Some flowering trees also use wind pollination. The male and female flowers on these trees do not have colorful petals and nectar. Scientists call these caterpillarshaped clusters of flowers "catkins."



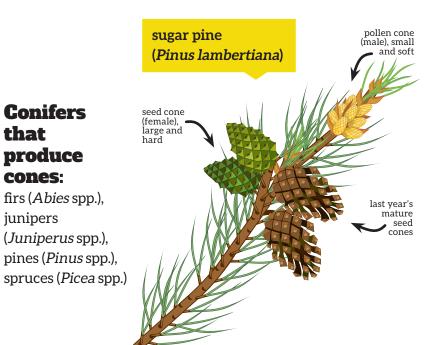
Conifers

produce

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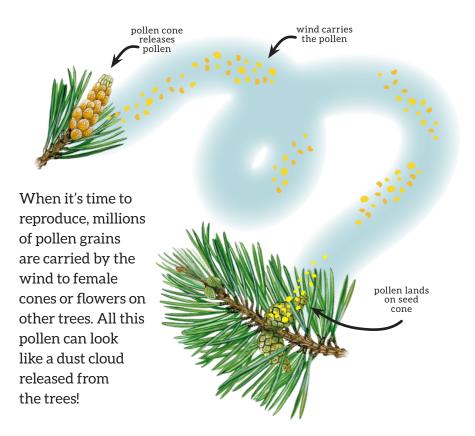
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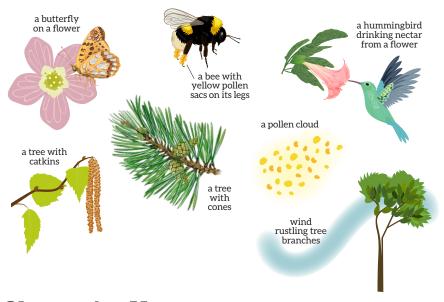
aspens and cottonwoods (Populus spp.), birches (Betula spp.), elms (Ulmus spp.), and oaks (Quercus spp.)



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Signs of pollination are all around us!

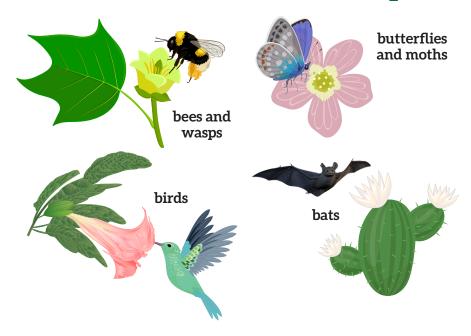
Use your detective skills to find some of the following clues:



Observation Notes

Date a	nd Time:							
Weath	ner:							
Circle the pollinators you see:								
bees	beetles	butterflies	birds	flies	other			
Interesting observations:								
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Let's meet some of the helpers!



These helpers are called "pollinators." They are attracted to colorful flowers filled with nectar, a sugary food source. When pollinators land on a flower, pollen sticks to them. When they move from flower to flower, they transfer pollen. That's how pollination works.

Did you know that some flies, ants, beetles, and even mosquitoes are also pollinators?

Which pollinators have you seen?

What is your favorite pollinator and why?

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