

WHISTLER NATURE CAMP

Pro-D Day
Learning Series

Plants
Series 2 of 6



Whistler
Community
Foundation



Association of
Whistler Area Residents
for the Environment

PLANT WORD SEARCH

Look for the words listed below.

Hint: words may be vertical, horizontal, diagonal or even backwards!



S	U	N	W	H	L	Y	N	X
F	N	F	A	I	R	E	C	B
L	H	R	T	W	C	F	A	X
O	T	U	E	K	O	T	U	F
W	A	I	R	E	N	H	G	N
E	S	T	D	E	E	S	T	F
R	T	E	E	Y	A	I	O	L
N	E	E	D	L	E	F	O	W
D	M	T	W	I	N	D	R	O



Sun	Stem	Flower	Seed
Water	Leaf	Needle	Wind
Air	Root	Cone	Fruit

PARTS OF A PLANT

Did you know that plants provide us with breathable air? Plants and animals have a system of give and take that helps both to survive. We breathe out carbon dioxide that we don't need and plants provide much of the oxygen in the air.

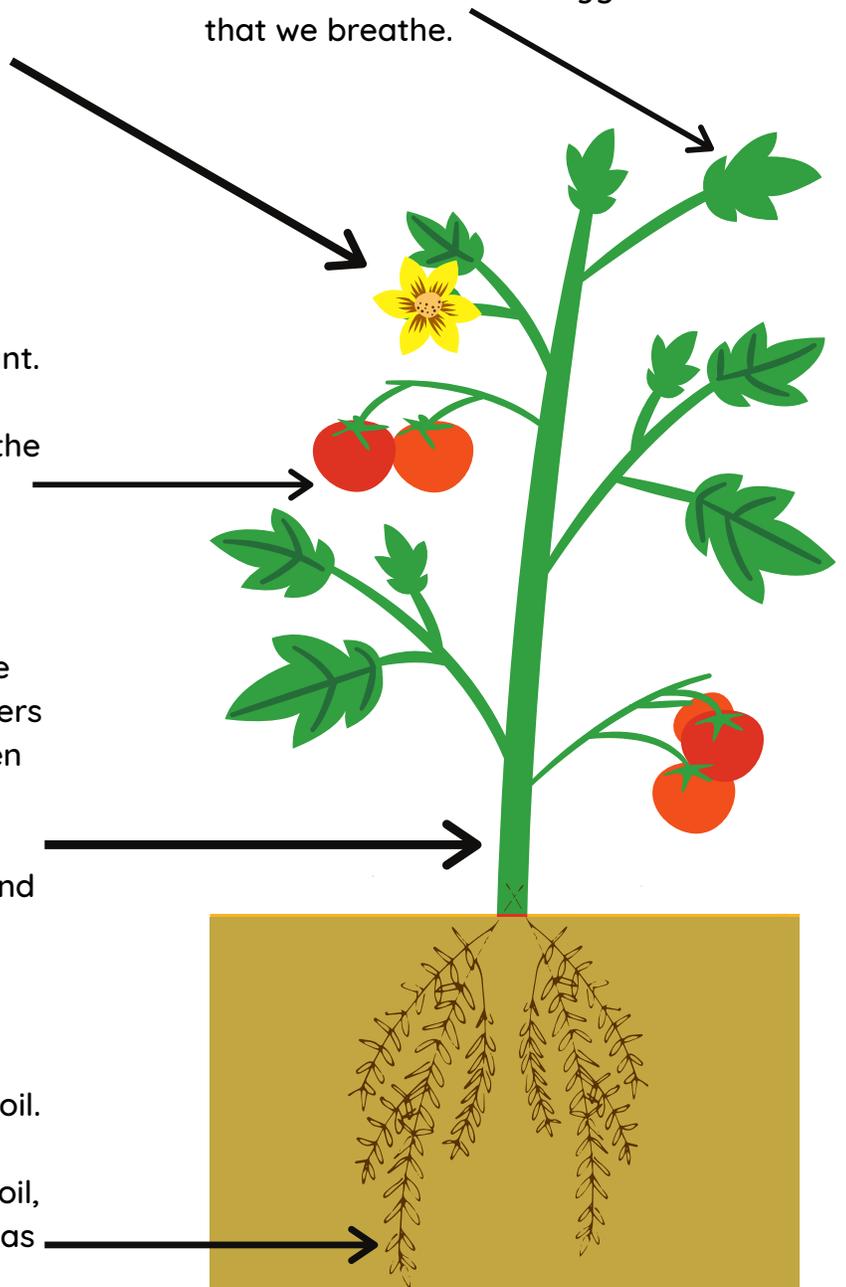
Flowers: Flowers generally are the showiest part of a plant. Their beauty and fragrance attract pollinators (insects or birds) that play an important role in the reproductive process.

Leaves: Leaves provide trees with all their food because they turn sunlight into food energy through photosynthesis. Leaves also make the oxygen in the air that we breathe.

Fruit: Fruit is the fleshy structure of certain plants that may be sweet and edible in the raw state, such as apples, oranges, grapes etc. It also consists of seeds which are for propagation of plant. The seed contain food which supplies energy and materials for growth until the plant grows its first leaves above the ground.

Stem: The stem is the upper part of the plant and bears branches, leaves, flowers and fruits. Stem is generally green when young and later often become woody and dark brown. It conducts water and minerals from the root to the leaves, and sugars from the leaves to the root.

Root: Roots originate from the lower portion of a plant and they are in the soil. Their functions are to absorb nutrients and moisture, anchor the plant in the soil, support the stem, and store food such as carrots.



DESIGN YOUR OWN PLANT

Time to show us what you learned above. Draw and label your plant into the soil below. This plant can be real or make believe as long as it displays the five main parts of the plant (flower, leaf, fruit, stem and roots).



POLLINATORS WITH A PURPOSE

Many flowering plants depend on animals to reproduce. Bees, butterflies, hummingbirds, bats, ants, moths, beetles and others visit flowers in search of food.



Female part: the opening at the end of the pistil where the pollen enters.

Male part: the anthers are covered in dark-orange pollen.

Pollinators: find the sweet sugary nectar at the bottom of the pistil.

Have you ever seen an animal pollinate a flower? What kind(s)?

Name three types of pollinators found in Whistler.

Insects often help flowers by pollinating but what is the plant doing to help the animal?

POLLINATOR PARTY

Pollinators are also key to maintaining the health and biodiversity of wildlife habitat. Identify the species below.

Next, circle all of the species below that are considered potential pollinators, then answer the questions below.



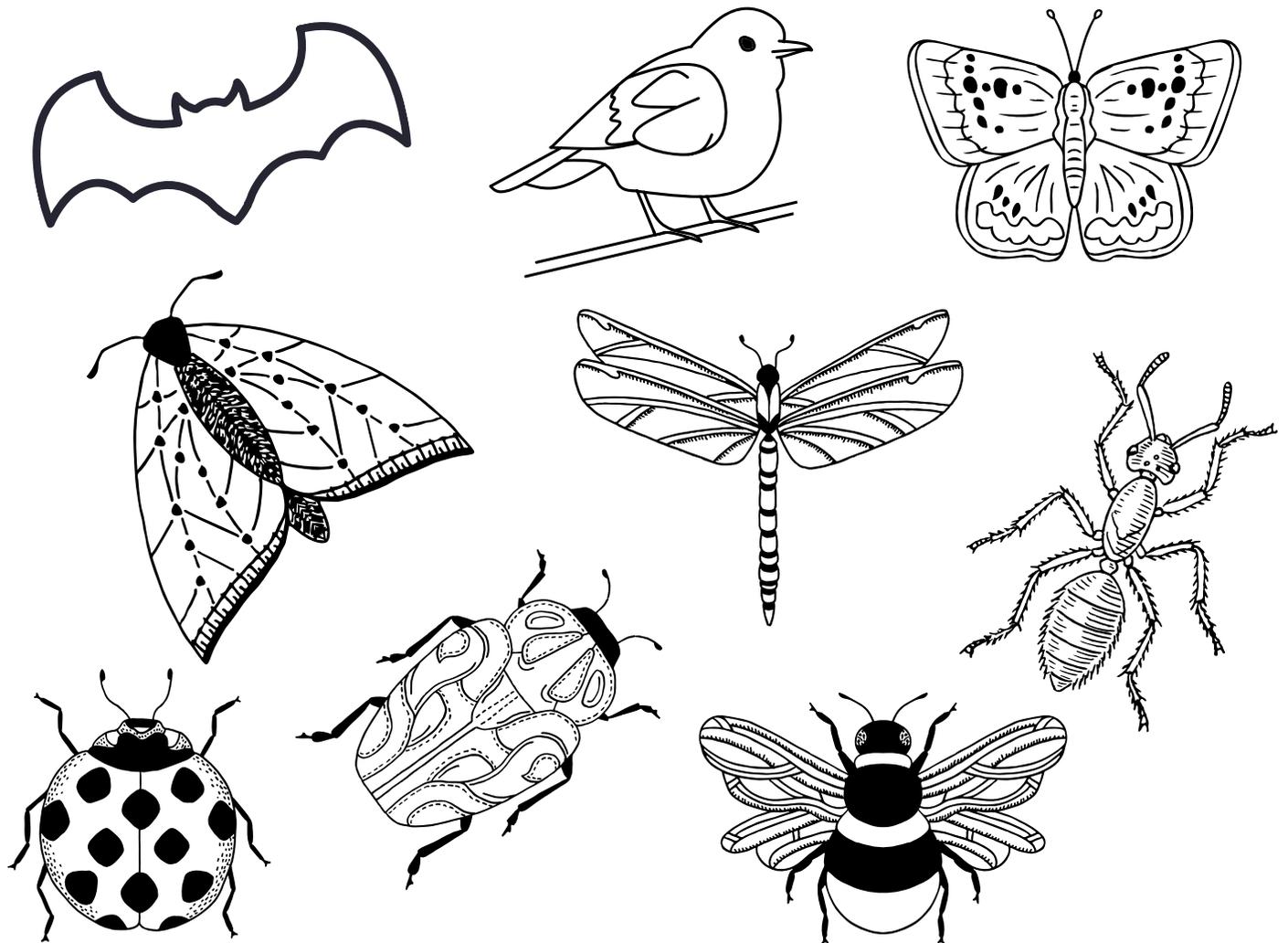
List all of the pollinators circled above that you can find in Whistler.

Look at the species you did not circle. What makes them poor pollinators?

Out of all of the organisms above which do you think is the best pollinator? Explain why.

COLOUR ME!

Fun Fact: While collecting nectar from the base of a flower, pollinators like bees brush against pollen from the flower's anther. The bee ends up carrying a load of pollen on its body. At the next flower the bee visits, some of that pollen reaches the female reproductive parts while the bee feeds. For other animals, the exact way they collect and deliver the pollen is different (hummingbirds sometimes collect pollen on their heads!), but the function is the same.



Once you've coloured the images above, circle which parts of the pollinators you think might transfer pollen from flower to flower.

NATURALLY CRAFTY

Let's make our own pollinators!



Materials:

- Paper
- Markers, crayons or colouring pencils
- Sticks, popsicle sticks or cardboard
- Glue or tape
- Scissors

Instructions:

- Trace your hand on piece of paper with a pencil. Make a minimum of two tracings, these will be your pollinator's wings.
- Next, decorate the wings of your creature.
- Once your masterpiece is ready, attach to sticks, popsicle sticks or cardboard.
- Now decorate the body and create antenna.
- Make sure you add anything else you think that will make your creature a successful pollinator.

Snowy Bingo



Fern



Fallen Leaf



Mud



Christmas lights



Tire Tracks



Snowman



Black Capped Chickadee



Ice



Animal Tracks



Scat



Frozen Branch



Animal Home



FREE



Snow Falling



Squirrel



Old Man's Beard



Cone



Twig



Litter



Raven



Needles



Berry



Deciduous Tree



Coniferous Tree



Fallen Tree



WINTER WANDER



Background:

Plants not only provide fresh oxygen for us to breathe but they provide shelter from the cold, shade from the sun, and food for many species.

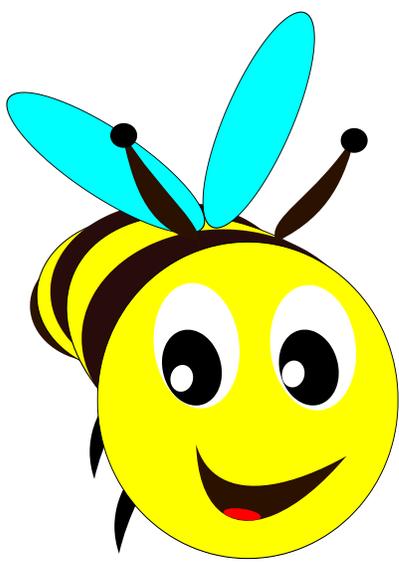
Just because a plant may seem small to you, think about how tall and amazing it may seem to a tiny insect.

Instructions:

- Head outside to a natural area (ideally with open fields and wooded edges).
- Pick someone to call out one of the instructions listed below, and players are given 2 minutes to run and do or find whatever is needed.
- Everyone gathers in the center of the playing area to discuss each action or direction, before the next one is called. A great way to learn about the environment in a fun way!

Challenges:

- Find 3 of the same thing
- Find objects that are: hard, big, dead, soft, small, green, funny
- Find a plant: as small as your thumbnail, as big as your head
- Find and bring back something that makes a sound.
- Find an unpleasant odor. Can you describe the smell?
- Find the oldest thing and try to guess its age. What are ways of determining the age of something?
- Find a plant that has the texture of: smooth, rough, slippery, shiny
- Look for a natural object that has five parts.



Use these sentence starters to write a journal.
Complete one, two, or all of these lines below:

- My favourite part of the day was...

- The two most interesting things I learned were...

- I didn't expect to...

- Next time I'd like to...
