

Honey Bees – Biology



Observation

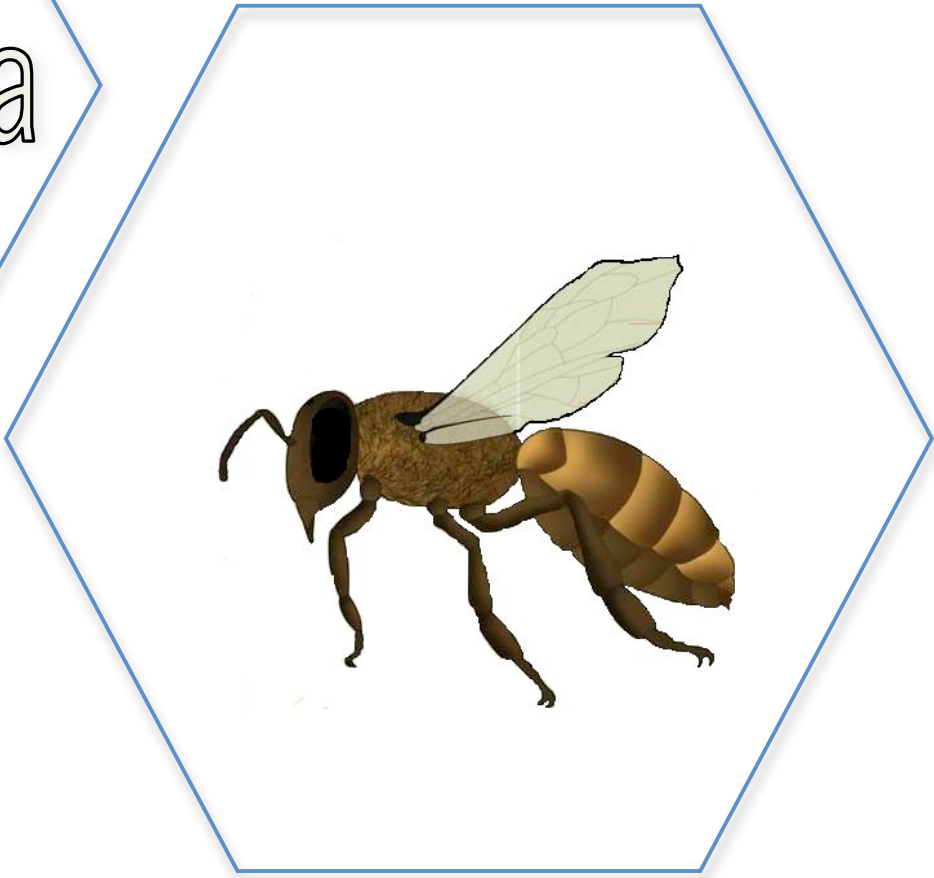
Honey Bees – Biology

Abdomen



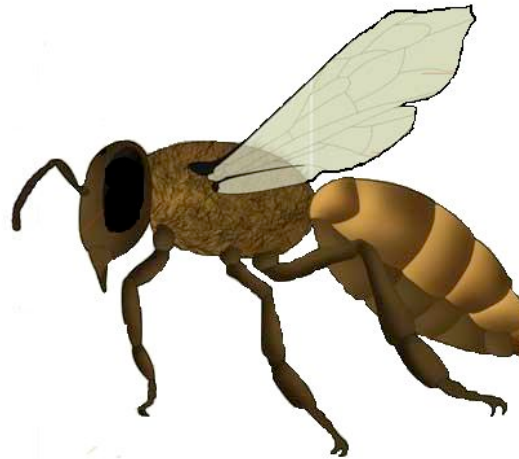
Honey Bees – Biology

Antenna



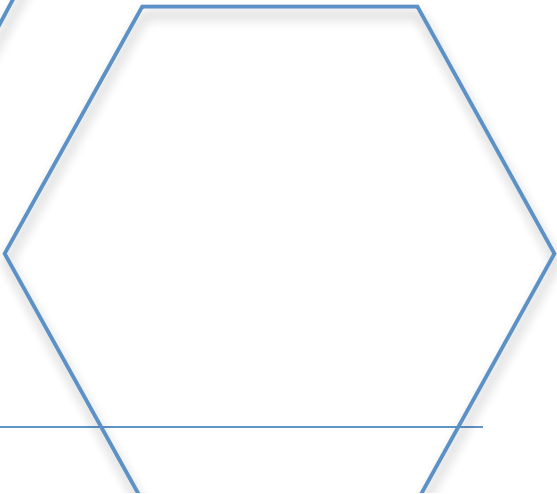
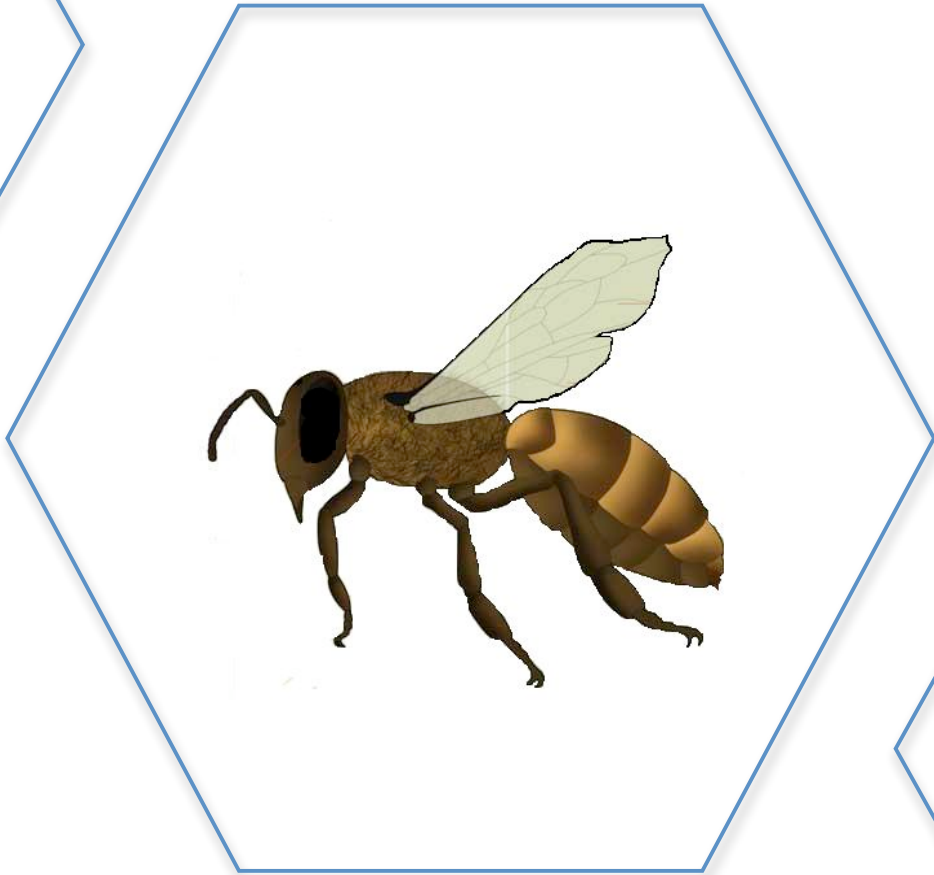
Honey Bees – Biology

Compound
Eye



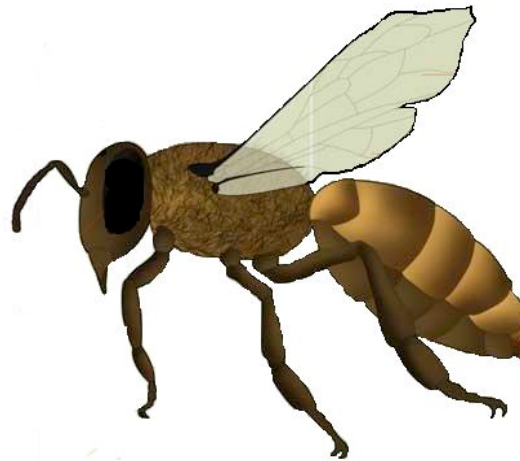
Honey Bees – Biology

Head



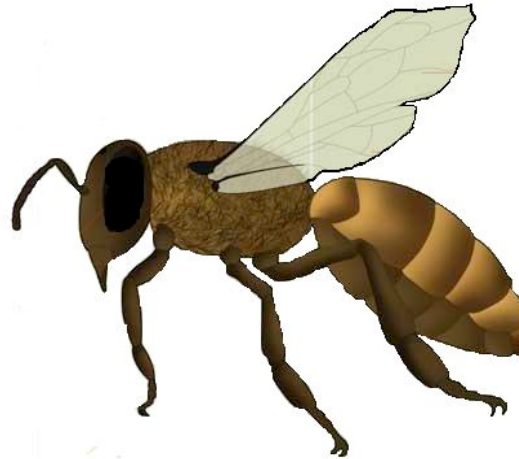
Honey Bees – Biology

Honey
Stomach



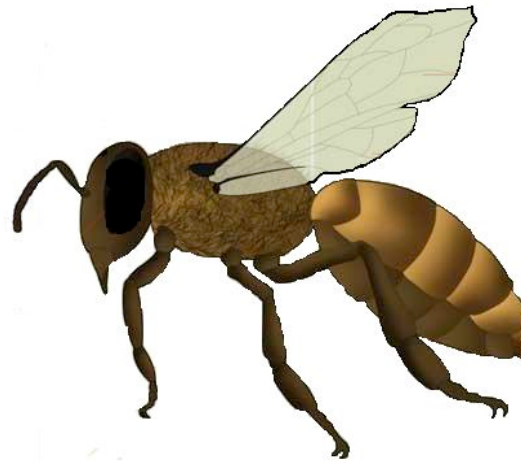
Honey Bees – Biology

Legs



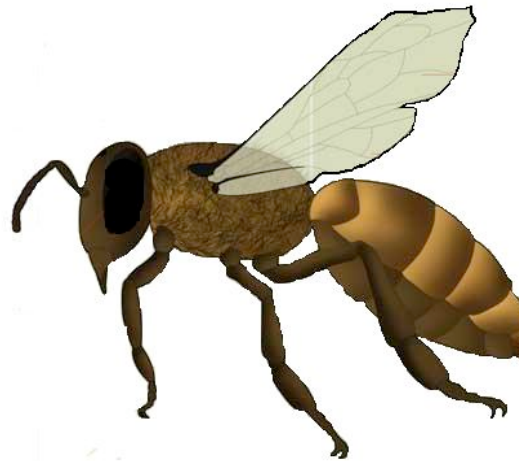
Honey Bees – Biology

Pollen
Baskets



Honey Bees – Biology

Proboscis



Honey Bees – Biology

Stinger



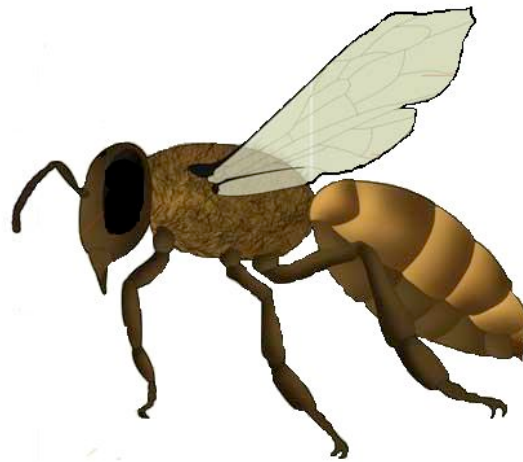
Honey Bees – Biology

Thorax

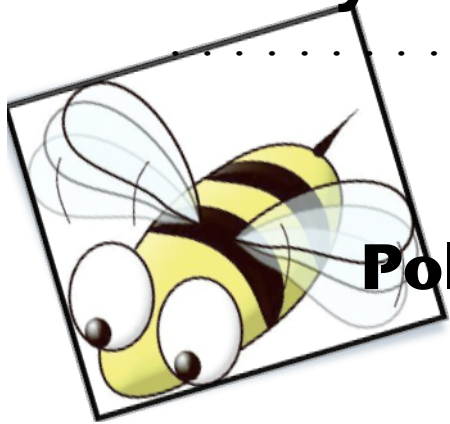


Honey Bees – Biology

Wing



Honey Bees – Communication and Pollination



food source

Glossary of Honey Communication and Pollination

Bee Dances – a way honey bees communicate to find

Nectar – sweet liquid made by glands in the flowers of plants

Pheromone – chemical substance produced by bees that influence the colonies behavior

Pollen – yellow or green powdery substance produced by flowers

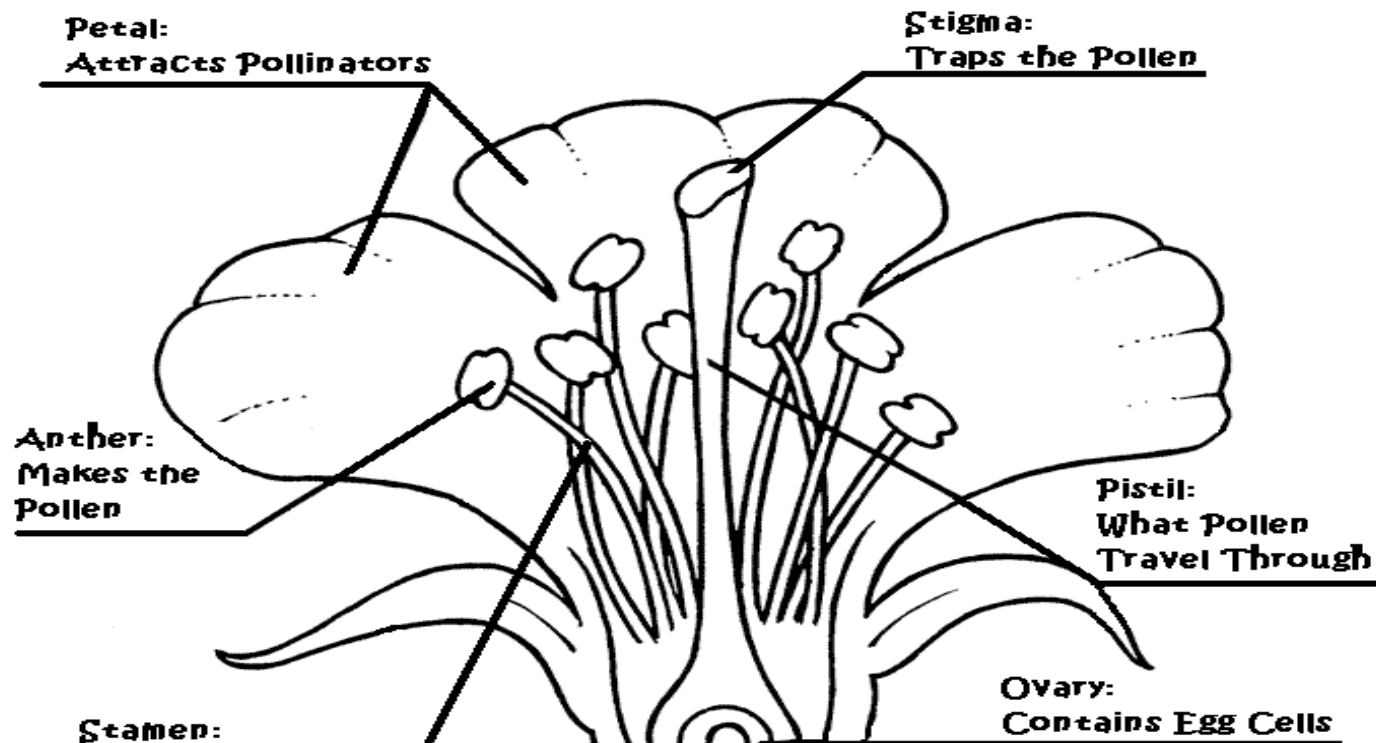
Pollen Basket – an area on the hind legs of worker honey bees used to transport pollen

Round Dance – form of communication honey bees use to locate food source at a close distance

Waggle Dance – form of communication honey bees use to locate food source at a far away distance

Honey Bees – Communication and Pollination

Parts of a Flower



Honey Bees – Communication and Pollination

.....

Time to create your own dance!

Create a dance that will tell someone else how to find the office from where you are.

Remember how a honey bee communicates with their waggle dance!

Honey Bees – Communication and Pollination

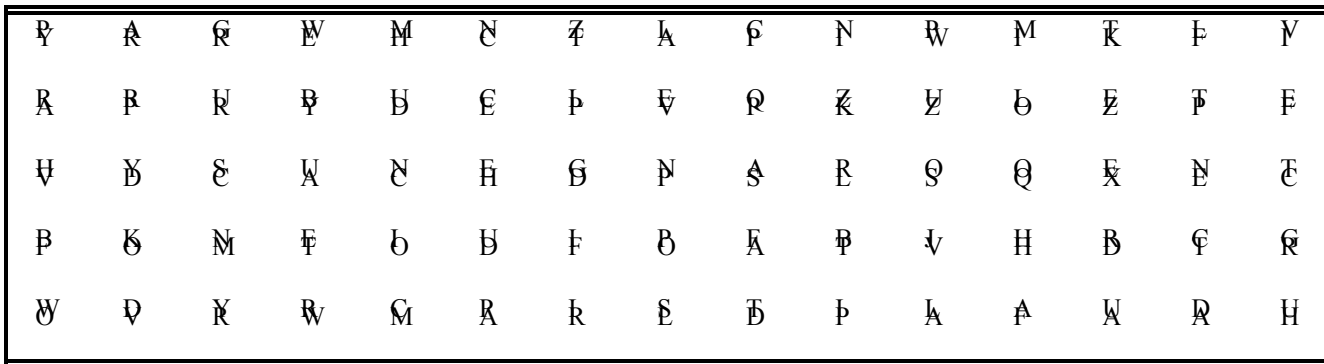
.....

Time to create your own dance!

Create a dance that will tell someone else how to find your desk.
Remember how honey bees use the Round Dance to find flowers!

Honey Bees – Communication and Pollination Word Search

.....



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

- ANTHER
- APPLE
- CHERRY
- COMMUNICATION
- DANCE
- FLOWER
- KIWI
- ORANGE
- OVARY
- PETAL
- PISTIL
- POLLEN
- POLLINATION
- ROUND
- STAMEN

Honey Bees – Communication and Pollination

.....

Map of Honey Bee Pollination



Honey Bees – Beekeepers



.....

Glossary of Beekeeper's Equipment

Bee Brush – used to gently brush bees from the honey comb

Brood Chamber – holds eight to ten frames, used to raise young bees

Coverall – a white suit worn by beekeepers for protection against stings

Cold Knife – used to remove top layer of wax bees place as a seal on the honey

Frame – wood or plastic rectangle used to hold the comb in a hive

Gloves – warn to protect the hands from stings

Hat (Veil) – protects your neck, face, and head from stings

Honey Super – where bees store extra honey that is then harvested

Smoker – used to calm the bees down so the beekeeper can examine the hive and collect honey

Honey Bees – Beekeepers

.....

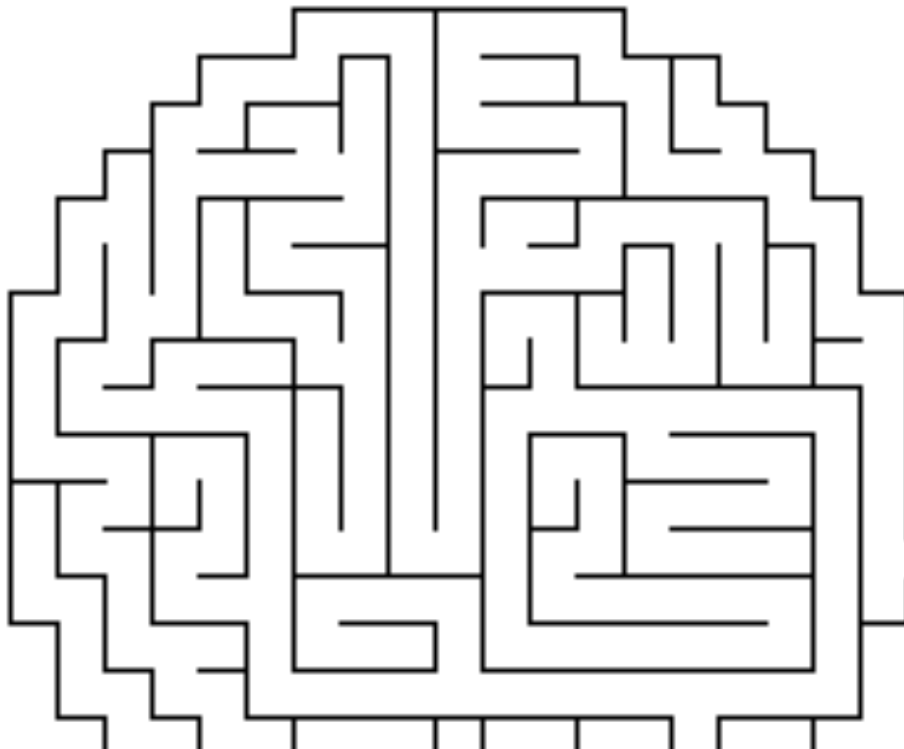
Did you know that most beekeepers are **hobbyists**? That means that most beekeepers take care of beehives for **FUN!** *How many hives do you think beekeepers have at a time? What do you think hives are made out of? Can hives live through rain and snow?*

Now it is your turn! **Write** down some questions you would like to ask a beekeeper.



Honey Bees – Beekeeper's Maze

.....
Beekeepers move their bees all over to help pollinate different crops!
Help this beekeeper move his hives to the apple trees!



Honey Bees – Additional Activities

.....

Fun Honey Bee Facts!

A honey bee must touch two million flowers to make ONE ounce of honey!

A honey bee can fly up to 15 miles per hour!

It would take about one ounce of honey to fuel a bee's flight around the world.

Utah is known as the beehive state!

Each honey bee has four wings.

A worker bee visits 50 – 100 flowers during each trip.

