

Bug Basics

Objectives: Teach children the basic parts and different types of insects. Make fun bug snacks and play games to learn about bugs.

Materials:

- Insect pictures
- Word Search (attached)
- Corrugated cardboard
- Paper and pencils
- Water
- Petroleum Jelly
- Pipe cleaners
- Large Bowl
- Scissors
- Cups
- Pitcher to mix the drinks
- Lemonade
- Kool-Aid (blue)
- Pretzels
- Peanut butter
- Chocolate chips

How Many Bugs... (10 Minutes)

In small groups get together and make a list of all the bugs you can think of in 5 minutes. Then come together as a large group and make up one big list of the bugs. Which were most commonly listed? Which were unique to one group? Where can you find the different types of bugs? Are they present all year round? Try to think of more as a whole class.

Water Walkers (10 Minutes)

1. Cut a 3 by 1 inch strip from the cardboard, cutting the 3-inch sides across the grooves. This strip will be the body of the insect.
2. Cut notches in the strip to shape the body into three parts. The middle body part should have three grooves.
3. Cut three 4-inch pieces from the pipe cleaner.
4. Stick each piece all the way through the three grooves in the middle part of the insect's body so that the same amount of it sticks out on either side. This makes the insect's legs.
5. Draw two eyes on the insect's head.
6. Bend each leg down where it meets the insect's body. Then bend about $\frac{1}{4}$ inch of the end of each leg out to shape a foot. Stand the insect on a table and adjust the bends in the legs so that each foot touches the table.
7. Fill the bowl three-fourths full with water
8. Slowly lower the insect into the water until its feet touch the surface, and then release it.

Results... The insect will stand on the water's surface.

Why? The cardboard insect, like real insects, can stand on the water's surface because of the surface tension of water.

Bug Facts (10 Minutes)

1. The world is full of bugs. Some experts estimate that there might be as many as ten million different species of bugs!
2. If you gathered together all the world's bugs in one place and weighed them, those bugs would weigh more than the entire world's people and animals put together!
3. If you gathered together in one place all the world's ants, it would take a long time to count them – all ten thousand trillion of them!
4. Did you know that in some parts of the world insects are an important part of people's diets? Insect eaters say that termites taste like pineapple and bees have a nutty flavor.

5. Spiders are not insects. The difference between spiders and insects:
Spiders have 8 legs where insects have 6
Spiders have 2 main parts to their body where insects have 3
Spiders do not have antennae where insects do

Word Search (10 Minutes)

Have children complete the word search of different insects and their parts.

Matching (15 Minutes)

Print copies of the matching game found below, cut the squares, and flip them so that the picture side is down. Then have children flip over the squares and try to find the matching pictures. Once they make a match, they may hold onto that match. The person with the most matches wins!

Buggy Snacks (15 Minutes)

Bug Juice:

- Lemonade
- Blue Kool-Aid
- Mix the two together to form green bug juice!

Butterfly Snacks:

- Take two pretzels
- Stick them together by spreading peanut butter in the middle
- Decorate on top of the peanut butter with chocolate chips
- Enjoy!

Bug Fun

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

ABDOMEN
ANTENNAE
BEE
BEETLE
BUTTERFLY
CATERPILLAR
COCOON
FLY
GNAT

HEAD
LADYBUG
METAMORPHOSIS
PEST
ROACH
TERMITE
THORAX
WASP
WING

Answers to Word Search

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+ + + + + + + + R + + + + + + + + N + + + + + +
+ + + + + + + + A + + + + G + + + + O Y + + + +
+ + + + + + + + L + + + + N + + + + O L + + + +
+ + + + + T + + + + L + + + + A + + Y + C F + +
+ + + + H + + + P + + + I + + + T + L + + O + +
+ + + O S + + E + + H + + P + + + + F + + + C +
+ + R + G + S + + C + + + + R + + + + R + + + +
+ A + + N T + E A + W + + + + E + + + E + + + +
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+ + + + N S I S O H P R O M A T E M C U + + + +
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+ N D + + + + + + + + + + R + + + + + E E B + +
A + + Y + + + + + + + + + + M + + + + + + + + +
+ + + + B + + + + + + + + + I + + + + + + + + +
+ + + + + U + + + + + + + + T + + + + + + + + +
+ + + + + G + + + + + + + + E + + + + + + + + +
+ + + + + + + + + + + + + + + + + + + + +
+ + + H E A D + + + + + + + + + + + + + + +
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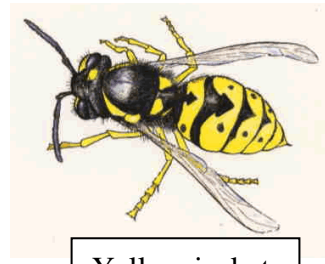
- (Over, Down, Direction)
- ABDOMEN (5, 12, E)
 - ANTENNAE (1, 15, NE)
 - BEE (23, 14, W)
 - BEETLE (17, 10, W)
 - BUTTERFLY (20, 12, N)
 - CATERPILLAR (19, 11, NW)
 - COCOON (24, 6, NW)
 - FLY (23, 4, NW)
 - GNAT (15, 2, SE)
 - HEAD (4, 21, E)
 - LADYBUG (1, 12, SE)
 - METAMORPHOSIS (18, 11, W)
 - PEST (9, 5, SW)
 - ROACH (7, 10, NE)
 - TERMITE (15, 12, S)
 - THORAX (6, 4, SW)
 - WASP (11, 8, S)
 - WINGS (5, 10, N)



Mosquito



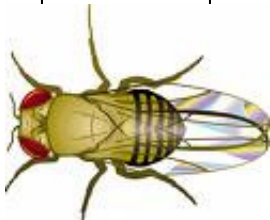
Mosquito



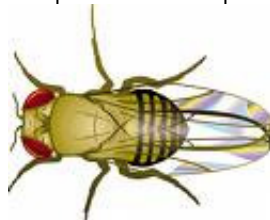
Yellow jacket



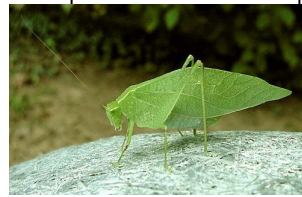
Yellow jacket



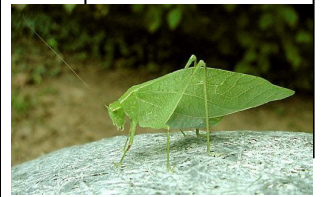
Fruit fly



Fruit fly



Katydid



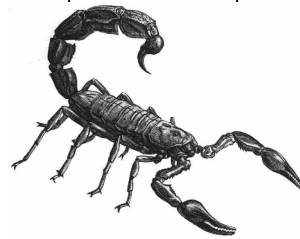
Katydid



Millipede



Millipede



Scorpion



Scorpion



Tarantula



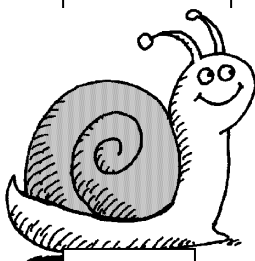
Tarantula



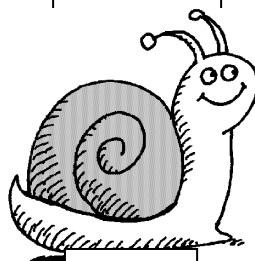
Slug



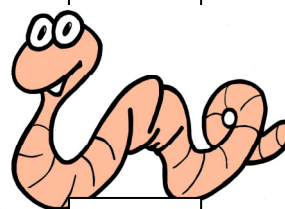
Slug



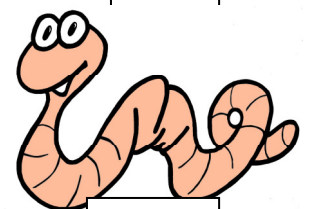
Snail



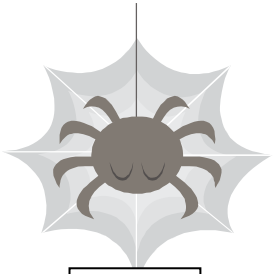
Snail



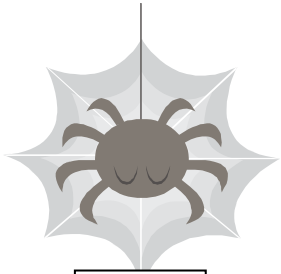
Worm



Worm



Spider



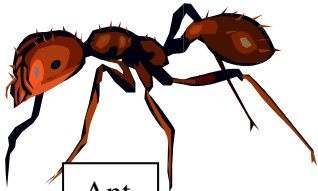
Spider



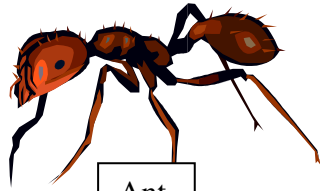
Ladybug



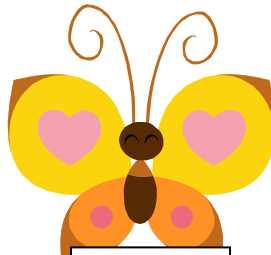
Ladybug



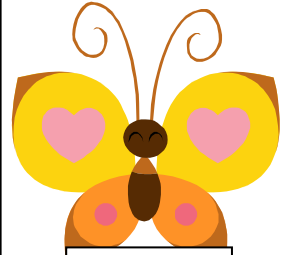
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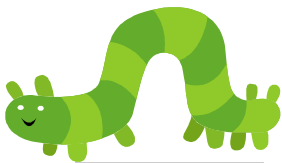
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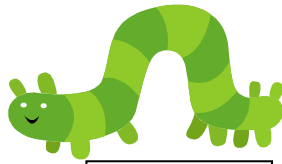
Butterfly



Butterfly



Caterpillar



Caterpillar



Bee



Bee



Beetle



Beetle



Dragonfly



Dragonfly



Grasshopper



Grasshopper



Firefly



Firefly