

INSECTS

CLASSROOM RESOURCES

CREATED AND COMPILED BY
IPTV K-12 CONNECTIONS

*THE MATERIALS WERE DESIGNED TO
ACCOMMODATE A K-6 AUDIENCE
PLEASE MODIFY AS APPROPRIATE

INSECTS A to Z

Work with a partner to complete the Insects A to Z activity. You will need to use reference materials such as an encyclopedia, insect books, and the computer to research insect-related words to fit each letter. Compare your word bank with other students in the class. Discuss the similarities and differences. *Challenge yourself to come up with two insect-related words for each letter.

A _____

P _____

B _____

Q _____

C _____

R _____

D _____

S _____

E _____

T _____

F _____

U _____

G _____

V _____

H _____

W _____

I _____

X _____

J _____

Y _____

K _____

Z _____

L _____

M _____

N _____

O _____

ART PROJECTS

EGG CARTON CATERPILLAR

MATERIALS:

EGG CARTON (CUT INTO SECTIONS OF THREE); POWDERED GREEN TEMPERA PAINT; PIPE CLEANERS; MARKING PENS

DIRECTIONS:

- PAINT CARTONS GREEN AND ALLOW TO DRY
- DRAW EYES
- POKE HOLES IN HEAD AND ATTACH PIPE CLEANERS

THIS ACTIVITY MAY BE MODIFIED TO CREATE OTHER INSECTS

TISSUE BUTTERFLIES

MATERIALS:

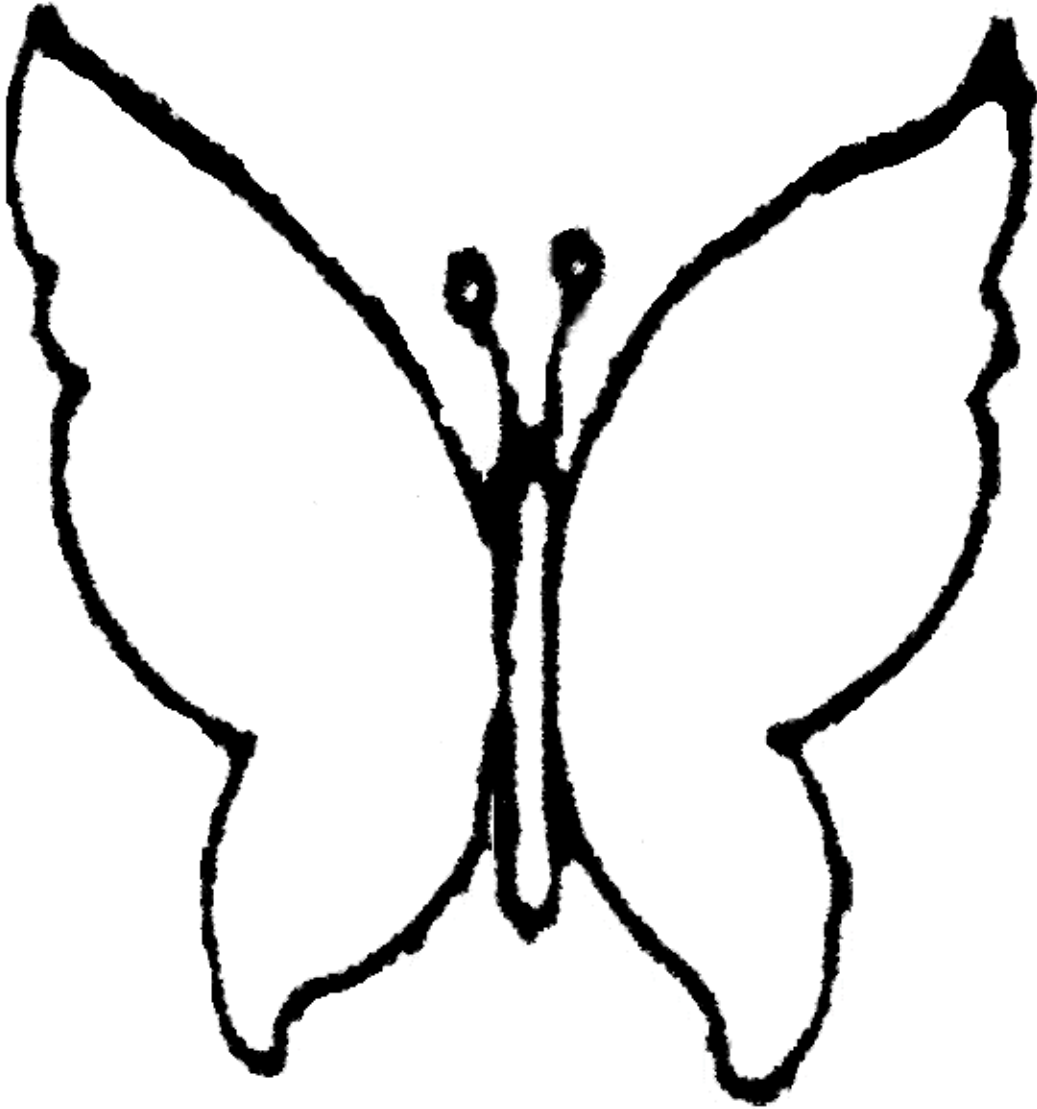
WAX PAPER; LIQUID STARCH; PAINT BRUSHES; COLORED TISSUE PAPER CUT INTO TWO OR THREE INCH SQUARES; BUTTERFLY PATTERN; STRING

DIRECTIONS:

- COVER PATTERN WITH WAX PAPER
- PAINT TISSUE PAPER SQUARES ONTO WAX PAPER USING STARCH WHILE FOLLOWING OUTLINE OF PATTERN
- MAKE TWO TO THREE LAYERS OF TISSUE; DRY OVERNIGHT
- CAREFULLY PEEL AWAY WAX PAPER
- THREAD STRING THROUGH TOP AND HANG FROM CEILING.

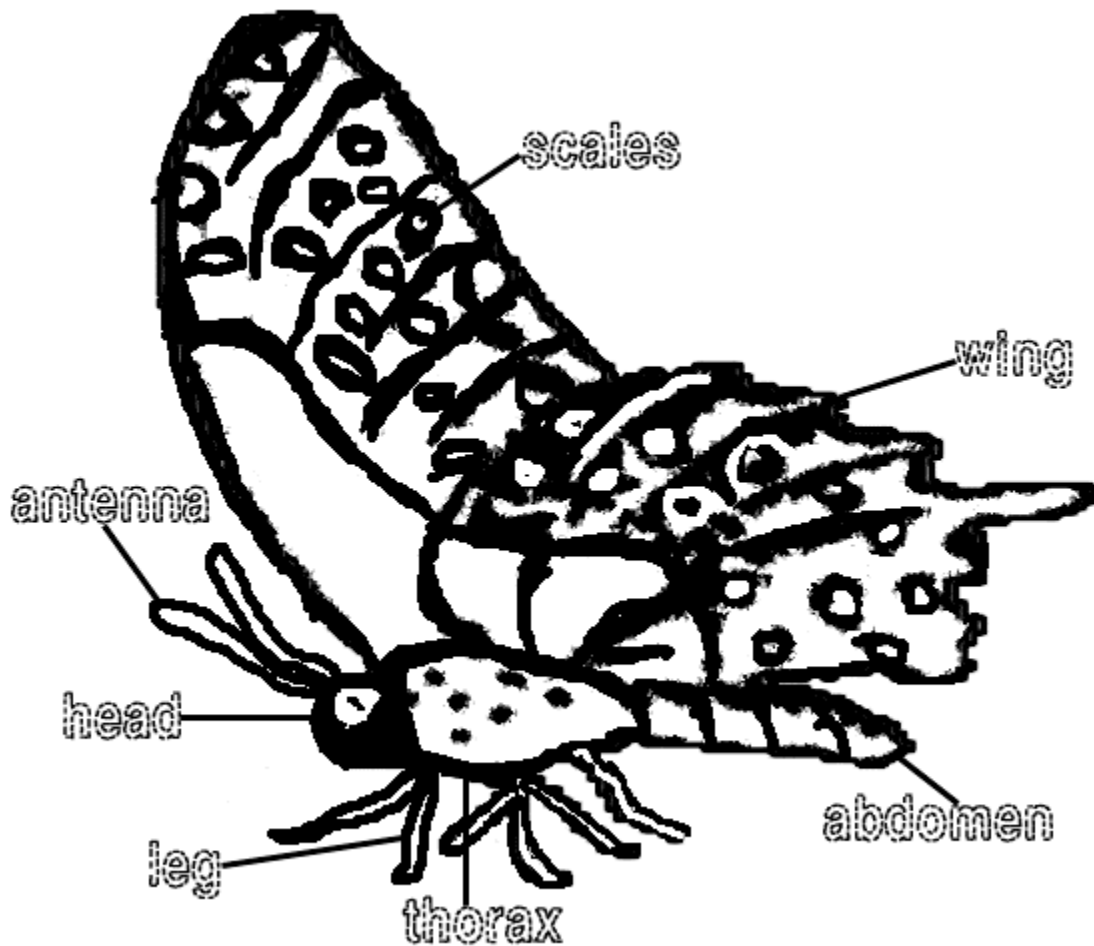
BUTTERFLY PATTERN

USE FOR ART PROJECT OR ADD LINES AND USE AS STATIONARY



BUTTERFLY BODY

TRACE THE BUTTERFLY BODY PART WORDS
COLOR THE BUTTERFLY



COUNT AND COMPARE THE BUTTERFLY TO YOURSELF

1. THE BUTTERFLY AND I BOTH HAVE 1 HEAD
2. THE BUTTERFLY HAS ANTENNAE. I HAVE ANTENNAE
3. THE BUTTERFLY HAS LEGS. I HAVE LEGS.
4. THE BUTTERFLY AND I BOTH HAVE ABDOMEN.

INSECT FACT CHART

NAME OF INSECT	WHAT IT EATS	WHERE IT LIVES	INTERESTING FACTS

Research three different insects. Write the name of the insects in the boxes to the left. Write each fact to the right of the insect name. Use the back of this sheet to draw each of the insects.

VERY IMPORTANT INSECTS

READ *THE IMPORTANT BOOK* BY MARGARET WISE BROWN ALOUD TO THE CLASS. SELECT AN INSECT AND DISCUSS WHY IT IS IMPORTANT; WRITE REASONS ON CHART PAPER.

ASSIGN EACH STUDENT TO CHOOSE AN INSECT ABOUT WHICH TO WRITE A POEM.

THE FIRST LINE AND LAST LINE WILL BE THE SAME.

VERY IMPORTANT INSECT POEM

The important thing about a _____ is that

_____.

It _____.

It _____.

It _____.

It _____.

It _____.

It _____.

But the important thing about _____ is that

_____.

MATH ACTIVITY KEYS

(for the following two pages)

MARCHING ANTS:

LINE 1	20
LINE 2	10
LINE 3	6.66
LINE 4	5
LINE 5	4
LINE 6	3.33
LINE 7	2.857
LINE 8	2.5
LINE 9	2.22
LINE 10	2

CRUSIN' CREEPY CRAWLERS

BETTY	158
ANDY	7
GERTRUDE	50
FONTAINE	102

MARCHING ANTS

Have you ever seen a marching line of ants? Your task is to try to figure out what would happen if 20 ants tried to group themselves into 2 lines, 3 lines and so on. In the space below, use division to figure out how many of the 20 ants would be in each line.

20 Marching Ants

1 line has 20 ants

2 lines have _____ ants

3 lines have _____ ants

4 lines have _____ ants

5 lines have _____ ants

6 lines have _____ ants

7 lines have _____ ants

8 lines have _____ ants

9 lines have _____ ants

10 lines have _____ ants

Try the activity again with a number other than 20 ants.

CREATIVE CORNER.....Bug Your Students

Insect Trivia

- Insects account for about 73% of all known species of animals
- There are over 800,000 classified species, some scientist believe that there may be as many as 10 million species
- Only 1% of all the world's insects are considered pests but devour 1/3 of all food grown for human consumption
- During a single mea, a female mosquito can drink her own weight in blood
- A cockroach can live up to 9 days without its' head
- More people have died from mosquito-borne disease than in all the wars of history combined
- It is estimated that since the stone age, about half of all human deaths have been caused by insects
- Some queen termites can live up to 50 years
- A tiny insect called a midge can beat its' wings 1000 times per second
- A mosquito can beat their wings 300 times per second
- The longest insect ever found was a Tropical Walking Stick from Asia, it was over 1 foot long
- Over half of all known insects live in Tropical Forests
- Tropical Forests are disappearing at a rate of 40 to 50 million acres per year, the size of Washington state
- At this rate, it is estimated that we are losing as many as 100,000 species a year, along with the Rain Forest
- Insects evolved about 300 million years ago, modern anatomically correct humans evolved only 300 thousand years ago
- 300 million years ago, Dragon Flies had a wingspan of 2.5 feet, today's Dragon Flies have a wing span of approximately 4-5 inches
- Today the largest insect is the Atlas Moth with a wing span of 6 inches
- The smallest North American Beetle is 1/100 of an inch and it could easily crawl through the eye of a needle
- There are more ants in the world than all other animals combined
- Ants can pick up 50 times their own weight
- Bees can pick up 300 times their own weight
- Fleas can jump 200 times their own body length
- You can tell the temperature by listening to the number of times a cricket chirps in 14 seconds then add 40

CRUSIN' CREEPY CRAWLERS

Use your math skills and a number line to chart the journey of each Creepy Crawler. Forward steps represent positive numbers and backward steps count as negative numbers. For fun, you may draw a picture of the Creepy Crawler in each box.

Betty Beetle is late for work. She starts on the number 10. She rushes forward 25 steps. Unfortunately, she forgot her lunch, so she goes back 25 steps. She must crawl 38 steps to reach the bus stop. Because she was late, Betty missed the bus. She must now creep along 110 steps to reach work. Betty is now at number _____?

Andy Ant sits on number 12. He jumps forward 32 steps. He smells a picnic and runs back 59 steps to find it. After eating his fill, Andy marches forward 22 steps. Andy is now at number _____?

Gertrude Grasshopper begins at number -10. She hops forward 41 steps. After nibbling on a blade of grass, Gertrude decides to visit a friend. She skips forward another 67 steps. She and her friend decide to sing by the pond. They leap back 48 steps. Gertrude is now at number _____?

Fontaine Flea is at number -43. He spots a dog and decides to bounce forward 87 steps. Unfortunately, the dog is wearing a flea collar. Fontaine leaps forward 26 steps. He finds nothing to much on, so he decides to give the dog another try. Fontaine strolls back 26 steps. The dog has moved, and now Fontaine must hike 58 steps forward. Fontaine is now at number _____?

INSECT WORD SEARCH

See if you can find the insect names and action words in the puzzle below.
There is even a message hidden in the first line for you to solve!

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

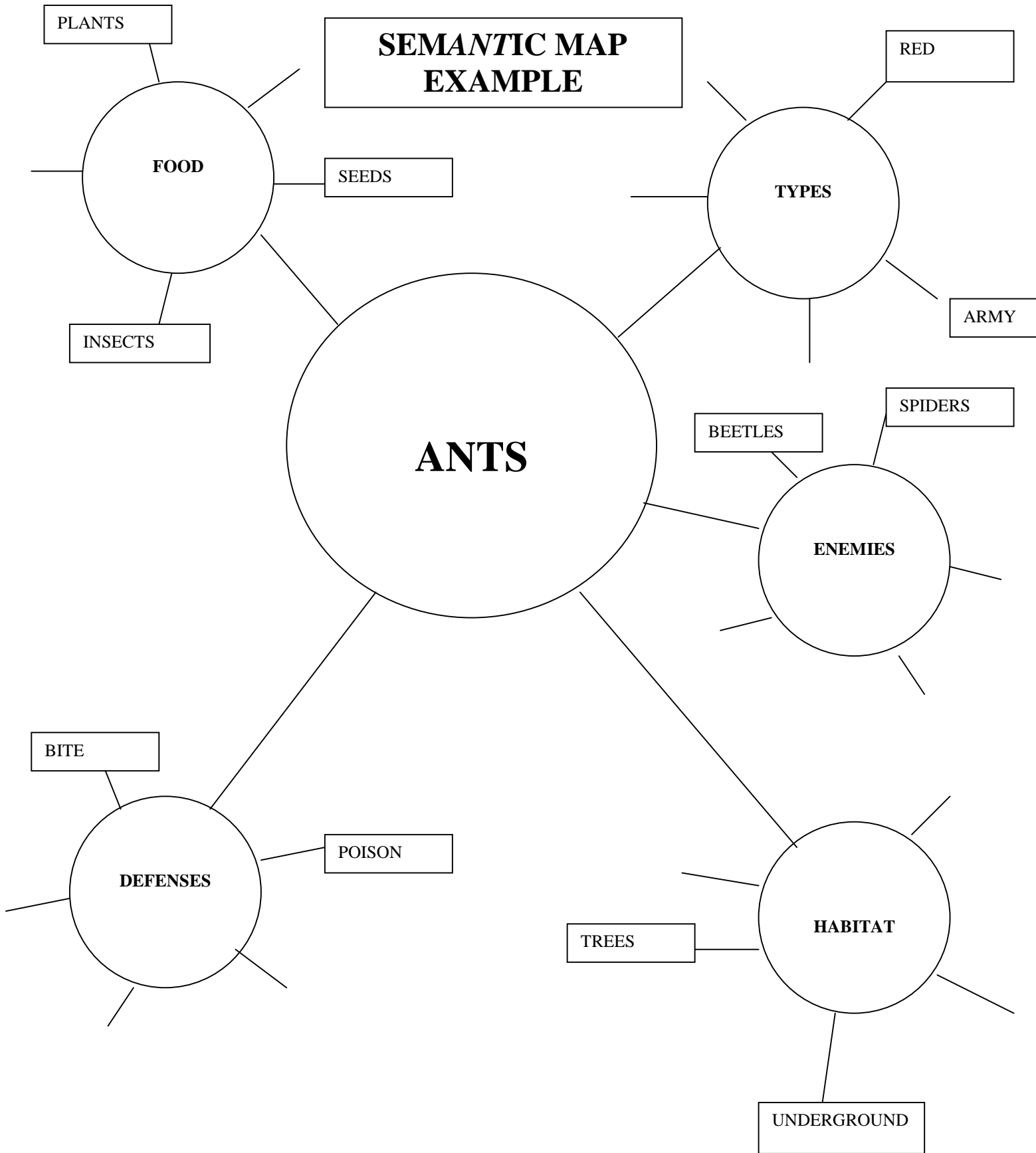
ANT
APHID
BEE
BEETLE
BUILD
BURROW
BUTTERFLY
CHANGE
CHEW
CRAWL
CRICKET
DANCE
DIG
DIVE
DRAGONFLY
DRINK
EAT
FIREFLY

FLEA
FLY
GATHER
GRASSHOPPER
HATCH
HOP
JUMP
KATYDID
KICK
LADYBUG
LOCUST
MARCH
MATE
MIGRATE
MOLT
MOSQUITO
MOTH
PADDLE

PRAYING MANTIS
RUN
SCURRY
SHED
SKATE
SKIP
SPIN
STING
STINKBUG
SWIM
TERMITE
TRAP
WALK
WALKINGSTICK
WASP
WHORL
WIGGLE
WRIGGLE

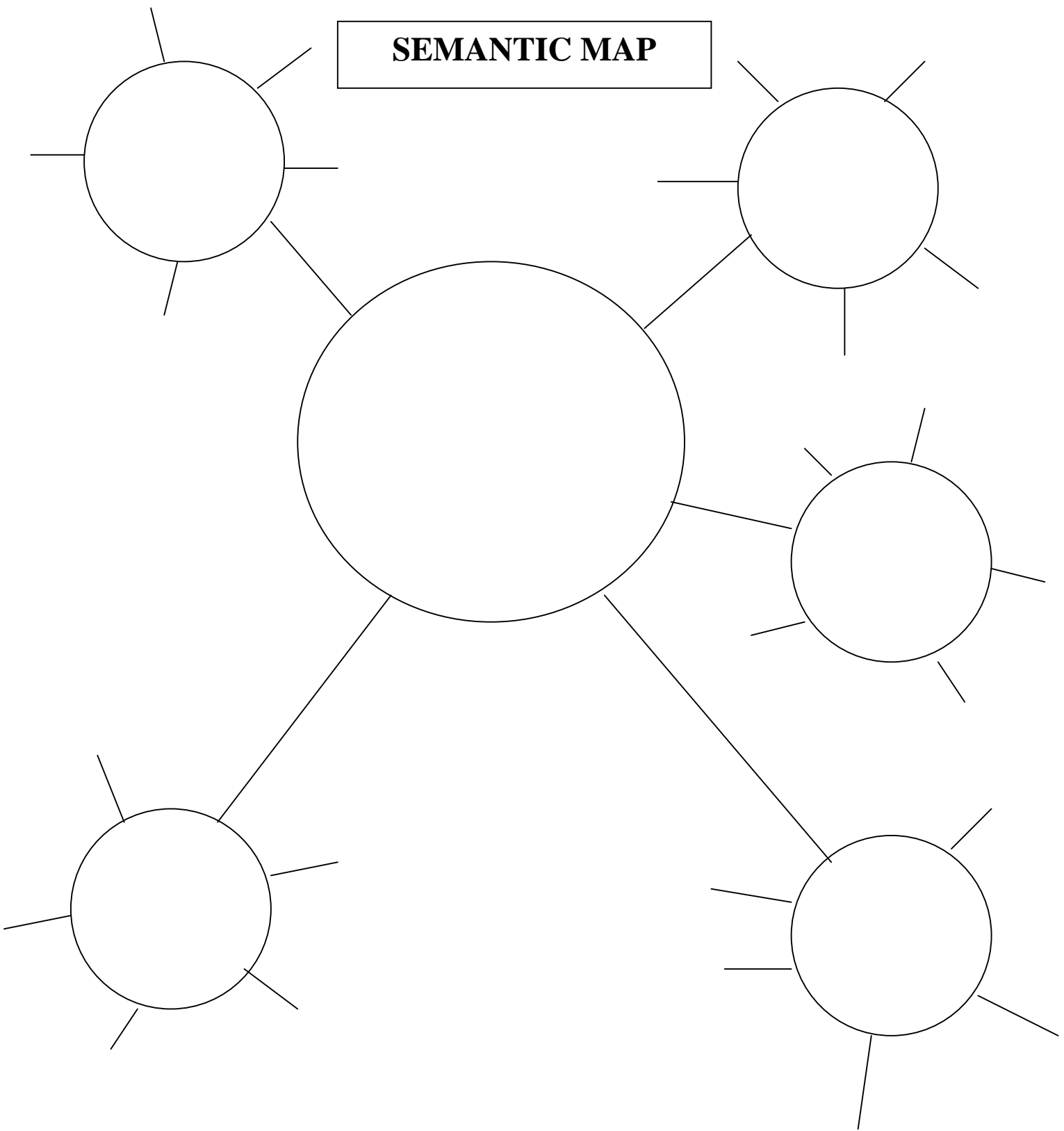
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SEMANTIC MAP EXAMPLE



Use this graphic organizer to help the students organize factual information. The students will conduct research to fill in the organizer. The students can use the information as a tool for fiction or nonfiction writing.

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