Deer Tick

Feeds off of the blood of other organism like the squirrels, mice and deer.

Blue Jay

Feeds on insects like beetles and ants

Deer

Feeds on the acorns produced from the red oak tree.

Fiery Searcher Beetle

Feeds on insects and the gypsy moth caterpillar

Carpenter Ant

Feeds on the gypsy moth caterpillar

Gypsy Moth Caterpillar

Feed on the leaves of trees.

Deer Mouse

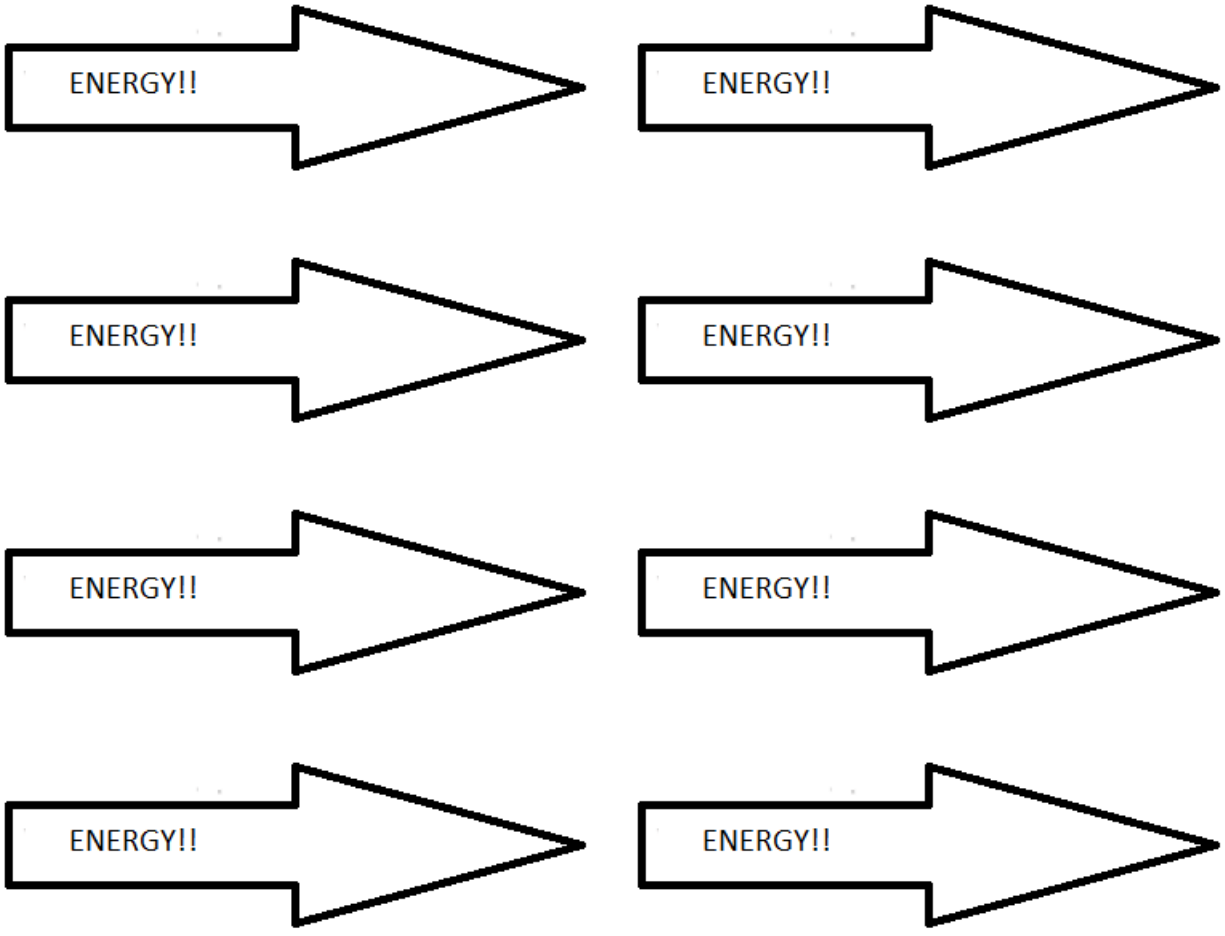
Feeds on acorns and insects

Red Oak

Grows in the North East Part of the US. Acorns that are produce must remain on the tree for two years before the development is complete.

Red Squirrel

Feeds on seeds and nuts



ENERGY!!

ENERGY!!

ENERGY!!

ENERGY!!

ENERGY!!

ENERGY!!

Secondary Consumers

Secondary carnivores

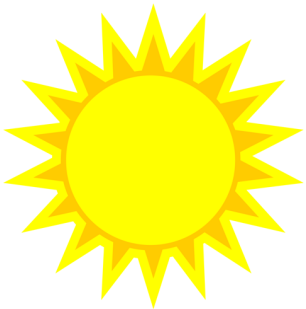
Primary Consumers

Tertiary Consumers

Herbivores

Primary Carnivores

Producers

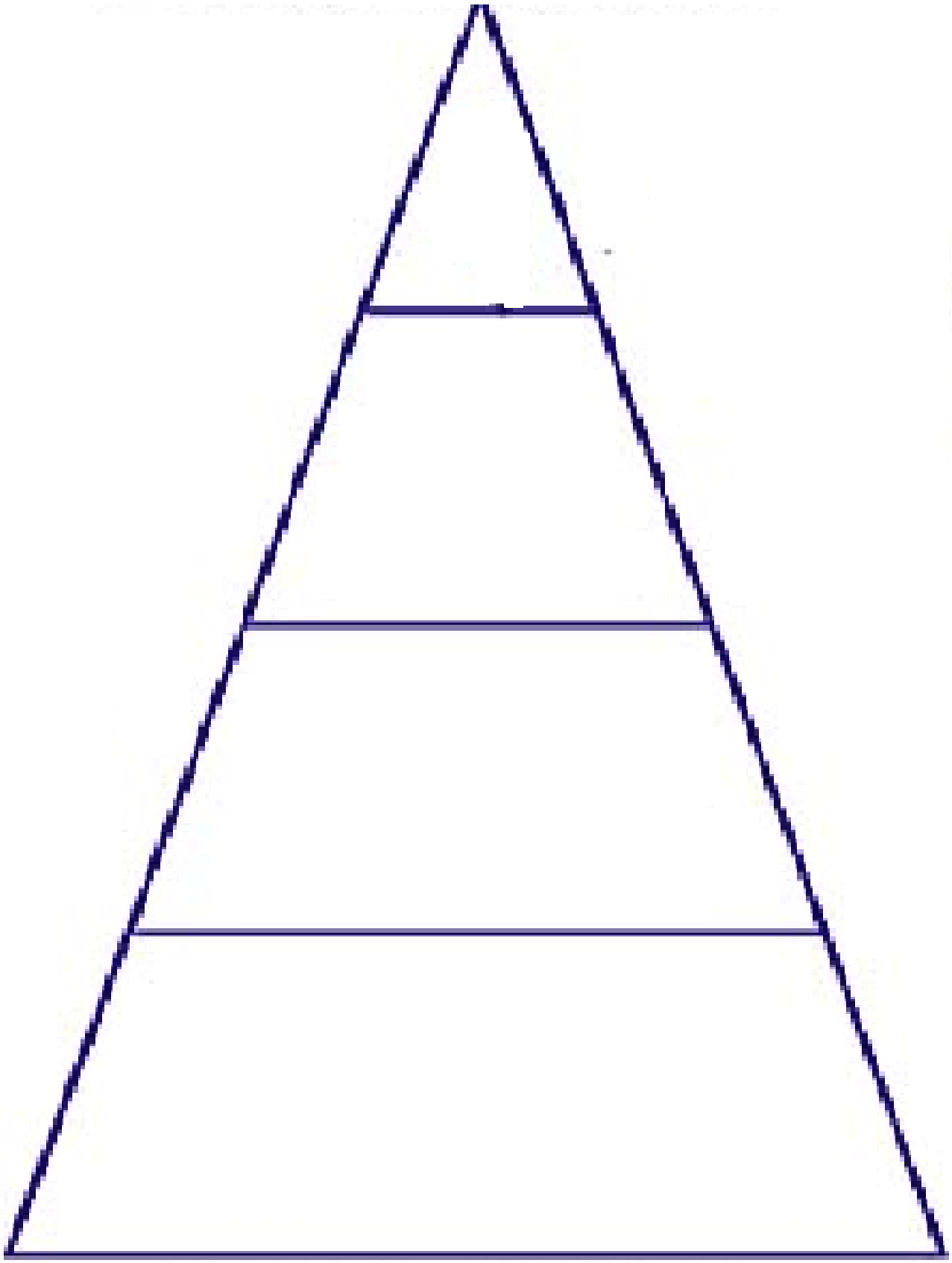


10,000kcal

1000kcal

100kcal

10kcal



Student Worksheet

Name: _____Date:_____

Part 1: Using the sun, organisms and energy arrows provided create a food web. When you have completed the food web, draw the food web using the organism names in the space below. You do not have to draw the organism pictures.

Part 2: In the diagram you drew above, identify the following organism relationships by underlining the organisms name using a specific color.

Autotroph(s)-green

Heterotroph(s)- brown

herbivore(s)-orange

Carnivore(s)-red

Omnivore(s)-blue

Producer(s) –pink

Consumer(s)-yellow

Part 3: Identify the relationship of the organisms listed below. Word bank (mutualism, commensalism, parasitism, competition, producer-consumer)

A deer eating an acorn:_____

A cleaner fish feeding off of the particle of fish left in a shark's mouth :_____

A squirrel and a chipmunk gather acorns for the winter:_____

A tick feeding on a mouse: _____

Nitrogen fixing bacteria make nitrogen available for trees and the tree provides the bacteria with nutrients:_____

Part 4: In the food web you built, describe what would happen to the population of the other organisms if the deer population decreased significantly. Use a (+) to indicate an increase in population, (-) to indicated a decrease in population and (=) if there would be no change in the population.

Part 5: Using the organisms from the food web, the energy numbers (kcal), pyramid, and vocabulary terms, arrange the organism and terms into the pyramid in the correct location. Remember in an energy pyramid 10% of the energy makes it to the next level. When you complete the activity, record your results below.