Energy Flow Test REVIEW ★Key★

1.) What is a producer? Give 1 example:
A PRODUCER IS A LIVING ORGANISM CONTAINING CHLOROPHYLL & CAPABLE OF USING SUNLIGHT TO MAKE ITS OWN FOOD FROM MATERIALS TAKEN FROM THE SOIL & AIR. EX: TULIP, GRASS, OAK TREE, ETC.

2.) What is a consumer? Give 1 example:
A CONSUMER IS A LIVING ORGANISM THAT EATS OTHER LIVING ORGANISMS.
EX: COW, RABBIT, TIGER, MOUSE, ETC.

3.) What is a decomposer? Give 1 example:
A DECOMPOSER IS A LIVING ORGANISM THAT FEEDS ON DEAD MATERIALS, BREAKING THEM DOWN & RETURNING THE MATERIALS TO THE ENVIRONMENT.
EX: FUNGI, EARTHWORMS, BACTERIA, ETC.

4.) What is the difference between a carnivore and omnivore? Give 1 example of each:
↓ WOLF ↓ EATS BOTH MEAT & PLANTS] HUMANS
EATS ONLY MEAT] BEARS

5.) Where does all energy flow begin? THE SUN (pg. 1 of notes)

6.) All living things need what to carry out their life functions? ENERGY (pg. 1 of notes)

7.) A CONSUMER is a living thing that ~~eats~~ EATS other living things (pg. 2 of notes)

8.) A DECOMPOSER is a living thing that feeds on dead materials, breaking them down and returning the materials to the environment. (pg. 2 of notes)

9.) What process allows plants to make food using sunlight, soil and air? PHOTOSYNTHESIS (pg.2 of notes)

10.) Create a food chain using: (MANY DIFFERENT ANSWERS)

CLOVER	RAT	FOX	COYOTE	EARTHWORM
Producer	Consumer	Consumer	Consumer	Decomposer

11.) What materials from the environment are used by producers? (hw questions)

PRODUCERS USE ENERGY FROM THE SUN, CO_2 FROM THE AIR, WATER & MINERALS FROM THE SOIL.

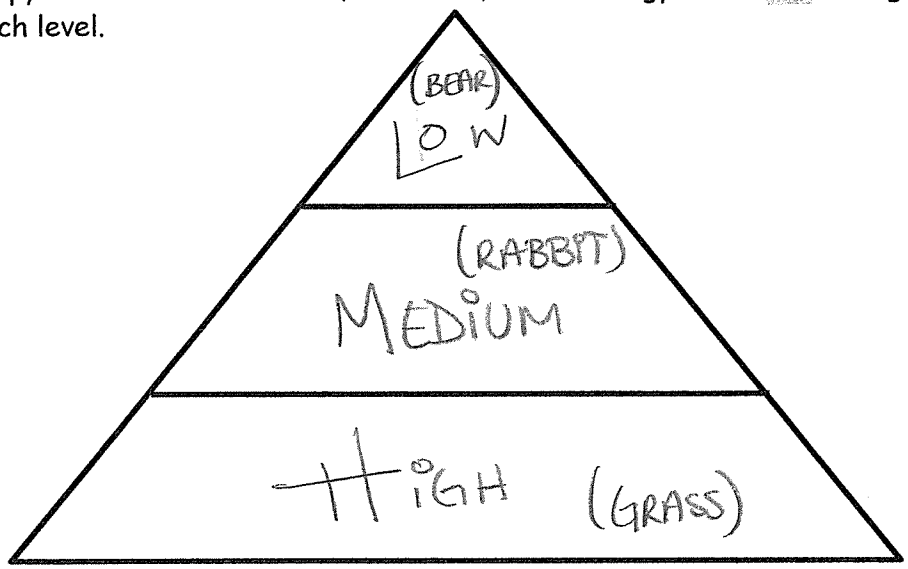
12.) An ecosystem with many plants and animals will have a MORE complex food web.
Explain why:

MORE PLANTS & MORE ANIMALS WILL HAVE MANY DIFFERENT FOOD OPTIONS, RESULTING IN A MORE COMPLEX FOOD WEB.

13.) An ecosystem with few plants and animals will have a LESS complex food web.
Explain why:

LESS PLANTS & LESS ANIMALS WILL HAVE VERY LITTLE FOOD OPTIONS, RESULTING IN A LESS COMPLEX FOOD WEB.

14.) A food pyramid shows how the amount of energy available changes at each step of the food chain. Fill in the food pyramid below with LOW, MEDIUM, HIGH energy levels and then give an example of an organism at each level.



15.) Why does each step of the food pyramid have less food energy available than the one below it? (pg. 7 of notes)

@ EACH STEP, LIVING ORANISMS USE A LOT OF THE ENERGY FOR THEIR NEEDS RESULTING IN LESS FOOD ENERGY AVAILABLE @ EACH HIGHER LEVEL OF THE FOOD PYRAMID.