**Grade 7 Science Test #2 Review Friday November 14**

**3 Symbiotic Relationships**

1. What 3 things does a relationship have to have to be SYMBIOTIC?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. In the chart below, use the 4 examples of symbiotic relationships on your “Welcome Partners and Unwanted Guests” worksheet. (whale & barnacle, dog and flea, nectar-eating bat and flowering cactus, bird and water buffalo)

Please find that sheet in your binder and look at it. Look also at the example below.

First column - write USING CORRECT SPELLING the TYPE of symbiotic relationship that the organisms have with

 eachother

Second column – list one of the organisms and indicate whether it BENEFITS, is HARMED, or NEITHER (not

 helped or harmed)

Third column– list the other organism and repeat what you did in the second column for this next organism

|  |  |  |  |
| --- | --- | --- | --- |
| **Symbiotic Relationship** | **Organisms involved** | **Organism #1**  | **Organism #2** |
| **parasitism** | **Human, tapeworm** | **human-harmed (host)** | **tapeworm – benefits (parasite)** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. If a woodtick feeds on the blood of a dog the parasite is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the host is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Photosynthesis & Respiration (7-08)**

Here are the proper spellings for the words you need to write in the blanks for this topic.

glucose carbon dioxide sunlight

water chlorophyll oxygen

1. We studied two processes of the carbon cycle. The carbon cycle is the movement of They are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The **process** that organisms use to make energy for their life processes is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The **process** that some organisms use to make energy form the Sun’s light is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Fill in the following blanks to make proper descriptions for photosynthesis and respiration.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Using your cutouts, and your text, fill in the proper vocabulary:

**Photosynthesis**

\_\_\_\_\_\_\_\_\_\_\_\_\_ do the process of photosynthesis.

Two “ingredients” that are required for photosynthesis are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Other needed items are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Two products that are made during photosynthesis are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Respiration**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ do the process of respiration.

Two “ingredients” that are required for respiration are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Other needed items are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Two products that are made during respiration are \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_

**Limiting Factors**

For #1-4, predict the effect of each of the following on the grasshopper population. Write I if the grasshopper population would increase and D if the population would decrease.

1. \_\_\_\_\_\_\_\_ There is a drought in the area.
2. \_\_\_\_\_\_\_\_ The number of birds in the area triples.
3. \_\_\_\_\_\_\_\_ The grass is very thick due to favorable abiotic conditions like sunny days with weekly rain.
4. \_\_\_\_\_\_\_\_ There is a flood in the area.
5. What is the relationship between a hawk and a mouse called? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Which is the predator?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Which is the prey? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. What is a limiting factor? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

On the first blank, name the limiting factor described in each phrase. On the second blank, name the population(s) that would be limited.

7)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_The carbon dioxide level is very high and it is making a blanket-type of effect around the

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Earth. The earth is heating up and polar bears do not have enough sea ice to float on to

 go seal-hunting. This limits the polar bear population.

8) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Many lynx in an area are suffering from an intestine parasite, making it difficult for them

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to catch the snowshoe hare.

9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Rabbits are having to travel much longer distances to get fresh grass after the forest was

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ burned.

10) \_\_\_\_\_\_\_\_\_\_\_\_\_\_Falcons and hawks are competing for a limited number of snakes and mice.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_

11) True or False: Agriculture is a limiting factor. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Why/why not? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12)

**Succession**

For #1-4, write P if the description shows primary succession and S if the descriptions shows secondary succession.

1. \_\_\_\_\_\_\_ In the Atlantic Ocean, there are weak spots in the Earth’s crust where lava spews out to make

 new land in the middle of the ocean. Hawaii was made this way!

1. \_\_\_\_\_\_\_ Ms Maxwell’s mom cleared some forest land to make a garden in their back yard.
2. \_\_\_\_\_\_\_ There is a flood in the Red River Valley and when the water retreats, thistle populations are

 high.

1. \_\_\_\_\_\_\_ A forest fire allows a previously forested area to be used as a camping area.

#5 What is a pioneer species? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Why are lichen such a good pioneer species? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#6 Look at the diagrams in your Ecology booklet.

 What is the climax community for a forest? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 What is the climax community for the marsh? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Previous Test**

1. Write the letter from column B in the blank beside its description in column A. Do NOT use words more than once. You will have one letter not used. (7-09)

 Column A Column B

1. \_\_\_\_\_\_organisms that can make their own food a) producers
2. \_\_\_\_\_\_ organisms that eat the food made by other b) omnivores

 organisms c) consumers

1. \_\_\_\_\_\_ organisms that eat only plants d) carnivores
2. \_\_\_\_\_\_ organisms that eat only meat e) herbivores
3. \_\_\_\_\_\_ organisms that eat both plants and animals f) vegetarian

2) Ecologists say that the Sun’s energy is “LOST” as we move up the food pyramid from producers to consumers. The Earth could support more humans if we all ate plants instead of animals. (7-10)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_