

7th Grade Science Midterm Review

****Know all unit 1-6 vocab words and definitions!!!!****

Unit 6

1. What are the special accommodations of space suits?
① regulate temperature, ② pumps blood to offset the absence of gravity
2. What conditions are necessary for life to exist? ③ provides O₂
protective atmosphere, water, distance from sun
3. Why is an atmosphere important?
protection from radiation, shields Earth from collisions
4. How are conditions in space different from Earth?
there is very little gravity in space.

Unit 5

1. What tools are needed for testing for water quality?
Water testing kit, microscope, notebook
2. How can freezing temperatures weather rocks?
water expands causing rock to crack
3. What distinguishes the eco regions of Texas?
similar conditions, plants, animals, climate
4. What force can create a canyon?
water erosion from rivers
5. How can water contamination spread?
through flowing rivers
6. What is the main cause of groundwater contamination? fertilizers

Unit 4

1. What two conditions are necessary for work to be done? force & distance
2. What type of energy is food? Movement? Heat?
chemical mechanical thermal
in direction of the force.
3. What is the formula for calculating work?
work = force x distance
4. If you move something 3m with 15N of force, how much work did you do?
3m x 15N = 45j of work
5. How do plants respond to lack of water? What is this called? lack of turgor pressure
the wilt
6. What tool measures Volume? Mass?

graduated cylinder triple Beam Balance

7. How can you use less force to do the same amount of work?

increase the distance

Unit 3

1. List all physical ~~the physical~~ changes and locations during digestion?

Begins in mouth with chewing

2. List all the chemical changes and locations during digestions?

Mouth - saliva, stomach - acids, liver - bile

3. What is the function of the digestive system?

Breakdown large molecules to smaller ones our body can absorb

4. What element is the base of all living things?

Carbon

Unit 1 and 2

1. What does a food web show?

flow of energy through a ecosystem.

2. What do the arrows on a food web represent?

→ direction of the flow of energy.

3. How are ecosystems affected by change?

they must remain balanced or a population

4. How would this affect a food web?

certain populations could die could die out.

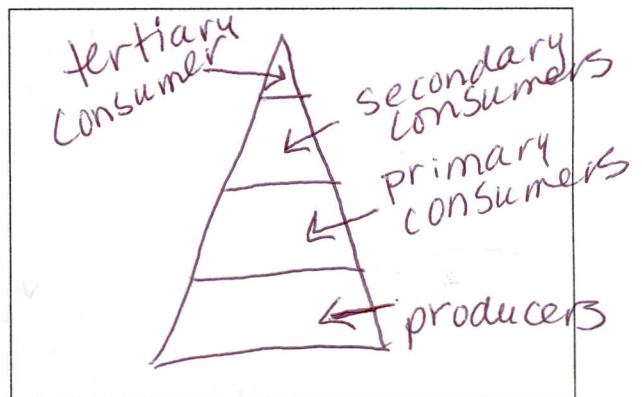
5. What are producers? - organisms that produce their own food.

6. Where are they on the food web? - the beginning

7. What is an energy pyramid?

Shows the trophic levels

8. Draw a picture of an energy pyramid.



9. What are the reactants of photosynthesis?

H_2O , CO_2

10. What are the products of photosynthesis?

glucose + oxygen

11. What is the energy transformation during photosynthesis?

radiant to chemical

12. What is the matter and energy transformation in a compost bin?

chemical to thermal

13. What roll do decomposers play in a compost bin?

Break down dead & decaying organisms returning their nutrients back to the Earth.