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nv. Science	

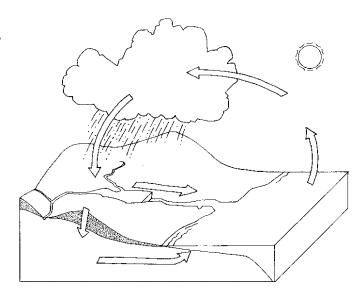
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REVIEW - CH. 2 ECOLOGY

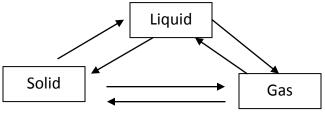
1. What is the difference between biotic and abiotic factors in the environment? give examples of each.
2. What is the difference between <i>ecology</i> and an <i>ecosystem</i> ?
3. List the 5 levels of ecological organization from smallest to largest. Then give a brief description of each.
4. What is the difference between an autotroph and a heterotroph?
5. Why do autotrophs always occupy the lowest level of ecological pyramids?
6. Briefly describe the different types of heterotrophs: Herbivore –
Carnivore –
Omnivore –
Scavenger –
Decomposer –
7. What is the difference between a producer and a consumer?
8. What is the difference between a food chain and a food web?
9. What is the difference between a niche and a habitat?
10. How many species can usually occupy a niche without competing?
11. How is it possible for competing species to occupy a niche at the same time?
12. What is the most common element in all living things?

13. What is a trophic level?

- 14. What happens to the energy that is not passed on to the next trophic level?
- 15. Look at figure 2.16 (pg 53), how much energy is passed onto the next trophic level from the one below it?
- 16. How many trophic levels on average do ecosystems have?
- 17. Fill in the blanks of the water cycle
 - a. Scientific name for water cycle:



18. Fill in the following process:



19. Distinguish between:

Primary succession

Pioneer species

lichen

Scondary succession

Eutrophication

Climax community.

20. What is predation? Explain each component.

21. L	Distinguish between the following terms:
Com	petition
Mutu	alism
Com	mensalism
Paras	sitism
Amei	nsalism
	Allelopathy
	Carbon cycle: a. What type of compounds/molecules does carbon form the framework for?
I	b. How do <i>plants</i> obtain carbon? Can they get it from the air?
(c. What is carbon used for in plants and in animals?
	litrogen cycle: a. What does nitrogen fertilizer do to plants?
I	b. How do <i>plants</i> obtain nitrogen? Can they get it from the air?
(c. What is nitrogen used for in plants and in animals?
(d. How does the <i>soil</i> obtain nitrogen?
	Phosphorus cycle: a. What is phosphorus used for in organisms?
I	b. How do <i>plants</i> obtain phosphorus?
(c. How do <i>animals</i> obtain phosphorus?
(d. How does the <i>soil</i> obtain phosphorus?