Environmental Science Review Warm-Ups

1. Explain what is meant by renewable **and** nonrenewable resources.
2. List 3 examples of each.
3. List 3 fields that are included in or contribute to Environmental Science.
4. What would a sustainable world be like?
5. Match each Scientific Method step with its description.

- Observation Possible answer to your question

- Make a Hypothesis Use data to answer question

- Experimenting Obtain information using senses

- Drawing a Conclusion Testing a hypothesis

1. Where does all the energy in our ecosystem originate?
2. What are biotic factors? List 3.
3. What is photosynthesis? What organisms undergo photosynthesis?
4. What is coevolution? Give an example.
5. What is pesticide resistance? How does it develop?
6. Spongebob wants to know if Krabby bubblegum really blows the biggest bubbles, as seen on TV. He and 10 friends blow 10 bubbles with Krabby gum and 10 bubbles with the original BB gum. ID the…

Hypothesis:

CVs:

IV:

DV:

1. Match each Decision Making Value with its explanation.

- Aesthetic The protection of natural resources

- Economic Human leisure activities

- Environmental What is beautiful or pleasing

- Educational What is right or wrong

- Ethical/Moral The gain or loss of money or jobs

- Health The maintenance of human communities and their values and traditions

- Recreational The gathering of and sharing of knowledge

- Scientific The maintenance of human health

- Social/Cultural Understanding of the natural world

1. Which kingdoms of life contain producers?
2. Compare and contrast primary and secondary succession.
3. Give an example of primary and secondary succession.
4. How does a food web differ from a food chain?
5. Draw an example of a food web.
6. Draw an example of a food chain.
7. How are freshwater and salt water different?
8. Where is most of Earth’s freshwater located?
9. List 3 threats to ocean ecosystems.
10. Compare and contrast nekton and benthos.
11. What are estuaries? Where are they located?
12. List and describe the different types of freshwater ecosystems.
13. List and describe the two zones of a lake.
14. Describe the following biomes:
    1. Tropical Rainforest:
    2. Temperate Deciduous Forest:
    3. Tundra:
15. Explain population growth trends in developed and developing countries.
16. Give an example of a population.
17. What is meant by the phrase, “replacement level fertility”?
18. What does a demographer do?
19. During which era/period was human population growth the most rapid?
20. What strategies are countries using to slow population growth?
21. What are endangered species?
22. What is being done to protect endangered species?
23. What is biodiversity? Why is it important?
24. How are mountains formed?
25. What is the molten rock in the mantle called?
26. Why is the air closest to Earth more dense than the air farther from Earth?
27. What is a scrubber, and what does it do?
28. What causes acid rain?
29. Explain the greenhouse effect.
30. What are possible effects of global warming?
31. Why is chlorine used in water treatment?
32. Why is it so hard to clean groundwater?
33. Why is improperly treated drinking water dangerous?
34. Where is Earth’s surface water located?