Green Generation Test

1. **Describe the goal of a environmentally stable society:**

2. **Perpetual and renewable Resources:**
    a. **What are differences between a perpetual and a renewable resource?**

    b. **Explain the benefit of using a perpetual resource vs. using a renewable resource:**

3. **Define environmental degradation:**

4. **What is the tragedy of the commons?**

5. **How can the tragedy of the commons be prevented?**

6. **Use of which energy source currently generates the largest amount of CO_2 emissions and why?**

7. **Define ecological tipping point:**

8. **Why are the properties of water important? Give two examples of biological/ecological scenarios where water's unique properties are important to the function it serves.**

9. **In order of highest priority, list the three Rs**

10. **Using the sequence from the question above, explain the its order and its significance to sustainability:**

1.

2.

3.

11. **What is an example of a point source pollutant?**

12. **Why is a nonpoint source more difficult to control than a point source?**

13. **What are green house gases?**

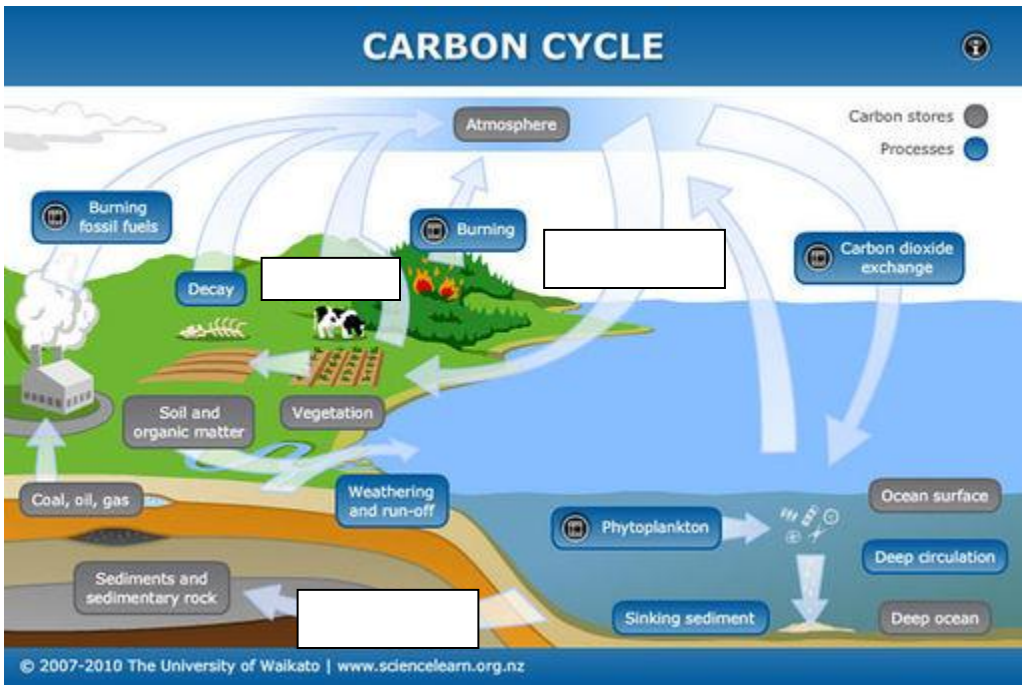
14. **What are some ways to curb carbon emissions in the industrial sector?**

15. **Why is it important to prevent pollution, rather than clean it up afterwards?**

16. **What is the difference between a decomposer and a detrivore?**

17. **What is the importance of nutrient cycling?**

18. **Label the carbon cycle below:**



19. **Relate nutrient cycling to the three principles of sustainability:**
    1.
    2.
    3.

20. **Describe the difference between weather and climate:**

21. **How does the ocean affect global warming and Earth's climate?**

22. **Define water shed:**

23. **List three advantages of dams:**

24. **List three disadvantages of dams:**

25. **What are the three limitations of desalination?**

26. **Distinguish between a mutagen and a carcinogen:**

27. **Is it possible for a mutagen to be a carcinogen?**

28. **Distinguish between primary and secondary pollutants:**

29. **Is dilution a solution to pollution?**

30. **Differences between industrial and photochemical smog:**

31. **List four indoor air pollutants:**

32. **In what quantity is lead deemed toxic, and why?**

33. **Why should we prevent/clean up indoor air pollution?**

34. **List one of the human body's defenses against pollution and how it can be overwhelmed:**

35. **What is the greenhouse effect?**

36. **Define indicator species:**

37. **Composting is most closely related to:**
    a. Nutrient Cycling
    b. Natural service
    c. Reusing

38. **Where does all the energy in an ecosystem originate from, and how does it travel in a food chain?**

39. **Gasoline is produced by refining which fossil fuel?**
    a. Oil
    b. Natural Gas
    c. Propane
    d. Coal

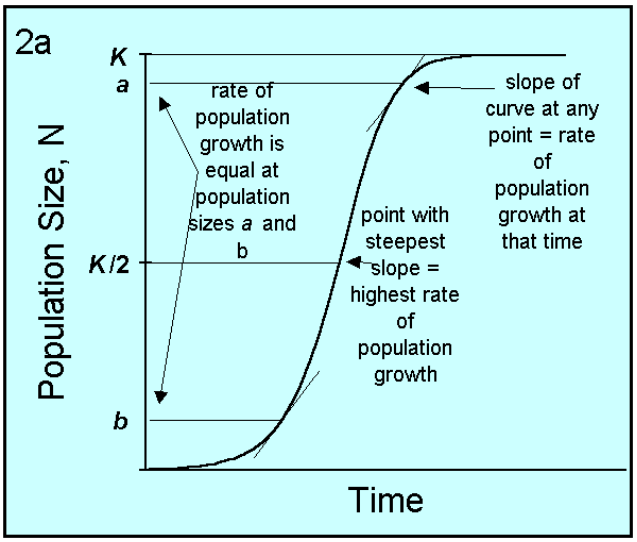
40. **What are some disadvantages to wind power?**

41. **How do solar panels convert the Sun's energy into electricity?**

42. Why do food pyramids typically end around the tertiary/quaternary consumer?

43. How has natural selection powered evolution?

44. Is this exponential, or logistic growth?



45. In the graph above, what is K referred to as?

46. Explain the healthy forest initiative act:

47. What did the Clean Air Act of 1970 accomplish?

48. **What is the global effect of ocean currents?**

49. **Why is methane collected from sanitary landfills?**

50. **How can a dam cause international issues?**

51. **What are the causes of dead zones in the ocean?**

52. **Why is ozone at the poles depleted when pollution is closer to the equator?**