Level 3 Challenge Questions:

Senior Scientist

1. Name the five kingdoms of life and provide and example of each one.
2. When a liquid changes into a gas, what process is occurring?
3. Describe the difference between volume, matter and mass.
4. Aluminum has an atomic number of 13and an atomic mass of 27, how many neutrons does it have?
5. Name 10 venomous snakes.
6. What part of a cell is responsible for making proteins?
7. Tell me how an igneous rock is formed.
8. Describe Newton’s Laws.
9. What are the four taste zones on your tongue and where are they located?

10.) Name all eleven body systems.

11.) What is a chemical change? Provide three examples of chemical changes.

12.) What is a biome? Tell me the major biomes of Earth?

13.) Describe how animal cell and plant cells differ.

14.) Describe the differences between nonrenewable sources of energy and provide example of them.

15.) Define ecosystem and provide an example of a small ecosystem and a large one.

16.) What is biodiversity?

17.) describe the difference between a food chain and a food web?

18.) Are particles in a gas close together or further apart form each other?

19.) What is the process when water that is present as a a gas in the air cools down and changes into tiny drops of liquid water?

20.) What does the acronym DNA stand for?

21.) How many pairs of chromosomes do humans have?

22.) On a Fahrenheit scale, tell me both the freezing and boiling points.

23.) One a Celsius scale, tell me both the freezing and boiling points.

24.) Define absolute zero and provide the Fahrenheit and Celsius temperatures for it.

25.) Give me an example of an accidental science invention and how it was discovered.