Earth Science Questions

# Round 1

1. What are the types of galaxies and their descriptions?
2. What are the long-term consequences of climate change?
3. What are the habits you could do to use less energy?
4. What are the physical and societal effects of earthquakes?
5. What are the differences between P-Waves, S-waves and surface waves?
6. What are the types of eruptions and what make them different from each other?
7. What are the differences between climate and weather?
8. Name and describe 4 different climate zones.
9. Describe the life cycle of a low mass star and a high mass star.
10. What is coronal mass ejection and what causes it?
11. What is the purpose of a climographs?

# Round 2

1. How does the Greenhouse effect work?
2. What is solar radiation?
3. What causes solar winds and what consequences does it have on Earth?
4. How are stars made?
5. What is the difference between a low mass, a medium mass and a high mass star?
6. Which energy resources is more expensive a renewable or a non-renewable? Explain.
7. What are the differences between the three types of volcanoes?
8. How are climographs made?
9. What are the factors that can affect climate? (Hint: LAPTOP)
10. What are the atmospheric greenhouses gases?
11. Which variables affect the amount of Greenhouse Gases in the atmosphere?

# Round 3

1. Describe the carbon cycle, and how it affects climate?
2. How do solar winds create aurora borealis in our atmosphere?
3. What are some negative consequences that the aurora borealis brings?
4. How does the type of volcano affect the type of eruption?
5. Where are shield volcanoes found? Why?
6. What are the long-term effects of earthquakes on a population?
7. What is the order of the waves of earthquakes?
8. What are the causes of climate change?
9. What is the difference between solar flares and a coronal mass ejection?
10. What are carbon sinks?
11. What are carbon sources?

# Round 4

1. What are some examples of fossil fuels?
2. What is green energy?
3. What evidence supports the Big Bang Theory?
4. What are seismic waves?
5. How do humans affect the green house gases?
6. How can ice cores provide evidence of past climate change?
7. How can the mass of the star affect its life cycle?
8. What is the difference between a prominence and a solar flare?
9. What is a sun spot?
10. What is the difference between renewable and non renewable energy?
11. What is the first step involved in the birth of a star?

# Round 5

1. What causes earth's seasons?
2. Why does the sun have planets orbiting around it?
3. What are the sources of carbon?
4. What is the albedo effect?
5. What are natural sources of atmospheric green house gases?
6. How is a hotspot formed?
7. What are the 3 type of wind currents?
8. What is causing the Global Warming?
9. What is the Albedo Effect?
10. What are the differences between each Solar Layer?
11. What are the different types of Energy sources?

# Round 6

1. How are tree rings used to predict past climate?
2. What is Fusion?
3. Identify the types of eruptions of volcanoes.
4. Name 3 fossil fuels and 3 renewable sources of energy:
5. Name and describe the process of star formation.
6. What do ice cores, tree rings, fossils, and glaciers have in common?
7. Explain the relationship between the Albedo effect and colors
8. Name what galaxy type the Milky Way is and describe it.
9. Name a few solutions to minimize the amount of Carbon emissions we humans produce.
10. What is the difference between a shield and cinder cone volcano?
11. What is the difference between a Hawaiian and Plinian explosion?