**The Earth’s Resources Revision Questions**

**Introduction**

1. What are the four types of spheres on earth?
2. Explain what each of them describes.
3. What four cycles are they linked by?
4. Describe the structure of the Earth.
5. What piece of equipment can monitor the whole of the Earth?

**The Geosphere**

1. What are the three different types of rocks?
2. How is a sedimentary rock formed?
3. Name 3 sedimentary rocks.
4. What is the porosity of a rock?
5. What is the permeability of a rock?
6. Name two different types of limestone.
7. What is limestone used for?
8. How is limestone eroded?
9. What causes chemical weathering?
10. Name an advantage of using limestone.
11. Name a disadvantage of using limestone.
12. How is metamorphic rock formed?
13. Name 3 metamorphic rocks.
14. How is igneous rock formed?
15. Name 3 igneous rocks.
16. Describe the difference in crystal size when rocks are cooled quickly and slowly.

**Weathering**

1. What is the process of physical weathering?
2. What is chemical weathering and how does this affect metal, stone and plant life?
3. What minerals are required for plants and animals to survive?

**The Earth’s cycles**

1. Describe the process of the rock cycle – you may draw a diagram.
2. Describe the process of the water cycle – you may draw a diagram.
3. Describe the process of the nitrogen cycle – you may draw a diagram.
4. Describe the process of the carbon cycle – you may draw a diagram.
5. How are all these cycles linked?

**Ores and Ore minerals**

1. What is the difference between an ore and an ore mineral?
2. Give an example of an ore and an ore mineral.
3. How is iron formed?
4. What is iron extracted from?
5. What is the process of extracting iron called?
6. Where is iron used?

**Crude Oil**

1. Where would you find crude oil and how is it formed?
2. How is crude oil extracted?
3. What is the process of separating crude oil into different parts called?
4. What is crude oil used for?

**The Geological Carbon Cycle**

1. Describe the geological carbon cycle.

**The Hydrosphere**

1. Where is water stored on Earth?
2. What are the main reservoirs of water on Earth?
3. What are the industrial uses of water?
4. What are the agricultural uses of water?
5. What are the domestic uses of water?
6. How do we harness electricity from water?
7. What types of renewable energy can we get from water?
8. What are the energy changes in this type of renewable energy?

**The Biosphere**

1. Name a freshwater and an oceanic resource.
2. What types of species do we get from the resources?
3. What is over-exploitation?
4. Give examples of where human over exploit domesticated, hunted mammals, agriculture and forests.
5. What is a terrestrial resource?
6. Name a terrestrial resource.
7. What are the issues faced by terrestrial resources?
8. What is a biological energy resource?
9. What is fermentation?
10. Describe the process of fermentation.
11. Describe the conditions require for the formation of peat and methane.

**The Atmosphere**

1. What is the composition of the atmosphere and what is it made up of?
2. What are the uses of nitrogen?
3. What are the uses of oxygen (apart from breathing!)?
4. What are the energy changes in a wind turbine?
5. State 3 requirements when siting a wind farm.