VCE Systems Engineering Unit 3

**SCHOOL ASSESSED COURSEWORK:** ENERGY

**Topic:** Renewable and Non-renewable Energy

Video Questions

1. Define what natural resources are? Where do natural resources comes from?
2. What are 5 examples of earth’s natural resources?
3. Why are natural resources so important to humans?
4. What two categories can natural resources be broken into?
5. Make two important points about non-renewable resources?
6. List 4 types of non-renewable resources/ energy sources.
7. Is the sun considered a renewable resource?
8. How do renewable resources/energy differ from non-renewable sources?
9. List 4 types of renewable resources.
10. To ensure that trees remain a renewable resource, what must happen?
11. Outline the 4 steps of the water cycle.
12. In simple terms, explain the concept of wind.
13. In simple terms, explain the oxygen cycle.
14. How is energy extracted from fossil fuel sources?
15. \*\*How are renewable and non-renewable resources/ energy compared?
16. What 3 factors go into the formation of coal?
17. What are alternative energy resources considered as? Why?
18. Give some examples of the earth’s natural processes/ systems.
19. What do wind turbines convert?
20. How is hydro power created?
21. What are some other hydro power forms?
22. Explain geothermal power.
23. Explain the production of biomass energy.
24. Despite the incredible energy density of fossil fuel, what is one immediate major drawback?
25. What is a benefit of renewable energy generation?