**REVISION SHEET 1**

**UNIT 1: THE EARTH – A VIBRANT PLANET**

***Task 1: Define the following key terms:***  [K 17]

|  |  |
| --- | --- |
| **Key Term** | **Definition** |
| Biosphere |  |
| Lithosphere |  |
| Atmosphere |  |
| Hydrosphere |  |
| Cryosphere |  |
| Crust |  |
| Mantle |  |
| Inner Core |  |
| Outer Core |  |
| Continental Drift |  |
| Pangaea |  |
| Rotation |  |
| Revolution |  |
| Eccentricity |  |
| Precession |  |
| Obliquity |  |
| Park Disaster Model |  |

***Task 2: Label the following diagram:*** [K 4]



***Task 3: Describe the layers of the Earth:*** [T 4]

Crust:

Mantle:

Inner Core:

Outer Core:

***Task 4: Explain THREE pieces of evidence that can be used to support the theory of Continental Drift.***

[T 6]

***Task 5: Explain the Milankovitch Theories and how they can affect climate.***  [T 6]

1. Precession

2. Obliquity

3. Eccentricity

***Task 6: Draw and annotate Park’s Disaster Model.***  [A 6]

**UNIT 2: THE LITHOSPHERE**

1. What is an earthquake? Explain HOW an earthquake happens.
2. How are body waves and surface waves different (earthquakes)?
3. Describe the difference between the focus and the epicenter of an earthquake.
4. Compare the different types of plate boundaries, and explain what can happen at each. (Convergent collision, convergent subductive, divergent, and transform)
5. Anatomy of a volcano – diagram
6. Explain how and why intraplate volcanism (hotspots) occur.
7. Case Study: Yellowstone Super Volcano
8. Richter Scale and Mercalli Scale – what do they show?

**UNIT 3: THE ATMOSPHERE**

1. Label the different layers of the atmosphere and give characteristics of each.
2. Explain the Hadley, Polar and Ferrel cells.
3. Explain the Inter Tropical Convergence Zone and how it impacts climate.
4. Construct and interpret a climate graph.
5. Explain how a tropical storm forms.
6. Explain some of the devastating effects of Hurricane Katrina OR Typhoon Haiyan.
7. Explain why storms are becoming stronger and more frequent – climate change.
8. GIS – what is it? How can it help countries prepare for tropical storms?

**UNIT 4: THE HYDROPSHERE**

1. Ocean currents – The Great Ocean Conveyor Belt and Gyres
2. The Great Pacific Garbage Patch
3. El Niño and La Niña – causes and effects (teleconnections)
4. Waves – key terms
5. Types of wave – constructive and destructive
6. Four types of erosion
7. The formation of ONE coastal landform (the one you studied in class)
8. Physical and human causes of flooding
9. River Hydrographs – key terms, how to draw, how to interpret
10. Pakistan Flood 2010 Case Study – location, causes and effects
11. Hydro-politics
12. Hydro-politics case studies