**JUNIOR SCHOOL**

 **2024 ANSWERS**

**G8 SOCIAL STUDIES**

Answer all questions

1. **Identify the following maps**



 **Topographical map**


#####  Atlas map

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##### A sketch map.

1. **Discuss the origin of the solar system under the following theories**
	1. **The passing star theory**
* A star with a greater gravitational pull passed near the sun
* It attracted large quantities of gaseous materials from the sun
* The materials split, cooled and condensed to form planets
* The planets were set in orbit by the passing star
	1. **The nebula cloud theory**
* There was a slowly rotating cloud of dust and gas called Nebula. This caused high concentration of materials at the centre that formed the sun.
* Rotation speed increased and successive rings of gaseous materials were formed.
* The rings condensed to form planets.
* The materials grew in size enough to exert their own gravitational pull.
* The central gaseous material remained as the sun
1. **State the names that describes the shape of the earth**
* ***Geoid***
* ***Ovoid***
* ***Oblate-spheroid***
1. **What are the Effects of Rotation of the Earth**
* Creates day and night because at any one time one side of the earth faces the sun (day) and the other remains in darkness (night).
* Causes deflection of winds and ocean currents in the N hemisphere to the left and in the S hemisphere to the right.
* It causes rising and falling of ocean tides.
* Causes time difference between longitudes.
1. **What are the effects of Revolution of the earth?**
* Causes the four seasons summer, autumn, winter and spring due to the movement of overhead sun causing changes in the heat belt.
* Causes variation of day and night’s lengths due to the earth’s axis being inclined to the path of revolution at an angle of 60◦.
* Equinoxes have equal lengths of day and night.
* Summers have longer days and shorter nights.
* Winters have longer nights and shorter days.
* Causes changes in the altitude of the midday sun due to the earth’s orbit being elliptical.
* Highest altitude during equinox.
* Lowest altitude during solstices.
* Causes lunar eclipse due to revolution bringing the earth in line with the sun and the moon.
1. **If the time in Monrovia , Liberia ,120W is 8:00am,what is the time at Addis Ababa, Ethiopia, 38 0E?**

**Longitudinal Difference= 380+12o=50o**

**10 =4 Min Or 150 =1hour**

 **If 10=4mins**

**What About 50o?= 50×4= 200 Mins**

**Change Minutes To Hours=**

 **=**

**Since Addis Ababa Is Ahead Of Monrovia, Add Time**

1. List down four proofs that the earth is spherical
* **circumnavigation**
* **Approaching ship**
* **earth rotates from west to East**
* **Eclipse of the moon**
* **Earth curved horizon**
* **All other planets are round**
1. **Identify the following parts of internal structure of the earth**



#### State the characteristics of the earth’s Core

* The innermost/central layer of the earth.
* Has 2 layers
* Outer Core
* Composed of very dense rocks
* Made up of nickel and iron
* Temperatures are up to 3700◦c.
* Inner Core
* A solid mass of mainly iron
* Temperatures are estimated to be 4500◦c to 5000◦c.

## State the Composition of the Atmosphere

* Gases-exist as a mixture
* Smoke particles
* Dust particles
* Water vapour.
1. **a) Name the four main zones of the atmosphere**
* **Troposphere**
* **Stratosphere**
* **Mesosphere**
* **Thermosphere/ionosphere**
1. The table below shows rain fall and temperature in town x use it to answer the questions that follow

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Months | JA | FE | MA | AP | MA | JUN | JUL | AU | SE | OC | NO | DE |
| Temp °C | 23 | 24 | 26 | 28 | 29 | 28 | 26 | 26 | 26 | 30 | 28 | 25 |
| Rainfall mm | 3 | 0 | 3 | 1 | 18 | 500 | 720 | 408 | 300 | 70 | 15 | 0 |

1. Calculate
2. The total annual rainfall

Add all values for rainfall in all the months

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rainfall mm | 3+ | 0+ | 3+ | 1+ | 18+ | 500+ | 720+ | 408+ | 300+ | 70+ | 15+ | 0+ |

**2038**

1. The mean monthly rainfall

Add all values for rainfall in all the months, then, divide by the number of months

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rainfall mm | 3+ | 0+ | 3+ | 1+ | 18+ | 500+ | 720+ | 408+ | 300+ | 70+ | 15+ | 0+ |

**=**

**169.83**

1. The annual range of temperature

**Differences between highest and lowest mean monthly temperature in year**

**30-23 = 7°C**

1. The mean annual temperature (2mks)

**Mean annual temp = sum mean monthly temperature =319**

 **12 12**

**=26.58°C**

1. Using the table indicate the following
2. The wettest month

**July**

1. The hottest month

**October**

1. The coolest month

**January**

1. **What are the factors to be taken into account when sitting a weather station**
* Open space-An open place where there is little obstruction of weather elements.
* Accessible place-Accessible place so that recording can be done easily.
* Gently sloping land-A fairly level or gently sloping ground (5◦) so that it’s easy to position weather instruments.
* Security-The place should have security.
* The place should provide a wide view of the surrounding landscape and the sky.
* The site should be free from flooding.

##### Write what element of weather they measure

* **Thermometer**- measures temperature
* **Hygrometer**- measures humidity
* **Rain gauge**-measures rainfall
1. **State the Factors influencing population distribution in Africa.**
* Climate.
* Security.
* Soil.
* Presence of water.
* Transport and communication.
* Historical events.
* Conflicts.
* Growth of towns among others.
1. A Grade 7 learners in a certain school obtained the following data showing monthly temperatures recorded in the nearby weather station. Create a simple bar graph using the information given

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| Temp0 C | 29 | 24 | 33 | 27 | 27 | 29 | 29 | 28 | 33 | 28 | 30 | 29 |

