**The Restless Atmosphere Key Words**

**Climate and Weather Key Words**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Atmosphere | Nitrogen 78% | Oxygen 21% | Carbon dioxide | Methane |
| Short Wave Energy | Greenhouse Effect | Latitude | Equator | High Pressure |
| Long Wave Energy | Low Pressure | Coriolis Effect | Prevailing Winds | SW Winds |
| Ocean Currents | North Atlantic Drift | Labrador | Canaries | Global Warming |
| Fossil Fuels | Deforestation | Methane (Cows) | Diseases | Flooding |
| Droughts | Renewable Energy | Public Transport | Less packaging |  |

**Different Weathers: The Effects of Ascending and Descending Air**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Climate | Weather | High Pressure | Low Pressure | Depression |
| Cyclone | Anticyclones | Millibars | Isobars | Air Mass |
| Cold Front | Warm Front | Clockwise | Anti Clockwise |  |

**Water in the atmosphere**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Water Cycle | Evaporation | Condensation | Precipitation | Runoff |
| Condensation | Cirrus | Cumulus | Stratus | Relief Rain |
| Leeward side | Rain shadow | Convectional Rain | Cyclonic rain |  |

**Measuring and Forecasting Weather**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Weather | Climate | Meteorology | Stevenson Screen | Thermometers |
| Hygrometers | Rain Gauge | Anemometer | Wind Vane | Anemometer |
| Campbell Stokes Recorder | Maximum and Minimum Temp | Temperature Range | Mean Temperature | Barometer |
| Beaufort Scale | Isotherms | Isotachs | Isohyets | Isohels |
| Isobars |  |  |  |  |

**Factors Affecting Weather**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Latitude | Equator | Prevailing Winds | SW Winds | Distance from Sea ocean |
| Altitude | Lapse Rate | Chill Factor | Aspect | North South Facing |

**Hot Deserts, Desertification and Irrigation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sahara | Latitude 15-30 N&S | Cold Ocean Current | Trade Winds | Sahara Desert |
| Dry 100mm | Hot over 30 degrees | High pressure | High Temperature Range | Cactus |
| Saguaro | Desertification | Sahel | Mali | Sudan |
| Population Growth | Over Cropping | Over Grazing | Deforestation | Lack of Roots |
| Migration | Drought | Famine | Solutions= Irrigation | Education |
| Plant Trees | Restrict Animal numbers | Irrigation= Aswan Dam Egypt, Nile | Dam, Reservoir | Lake Nasser |
| Little alluvial soil | No flooding | Tombs destroyed | Build up of salts | Clean water |
| H.E.P | Transport | Fishing | Farming | Tourism |

**Temperate Climate and Tourism**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Latitude | 30-40 degrees | Western side | Mediterranean | Summer-Hot/dry |
| Winters-Wet Mild | High pressure | SW Winds | Relief rain | Latitude |
| Summer droughts | Shrubs/ trees | Laurel/ cypress | Waxy leaves | Sharp thorns |
| Protective bark | Tap Roots | Tourism-Summer, hot & dry | Tertiary activities | Seasonal employment |
| Cote d’ Azure | Northern Europe | Improved transport | Wealth increase | Natural Beauty |
| Beaches | Recreation and sporting facilities | Picturesque towns and villages | Night Life | Food less expensive |
| High rise buildings | Improved roads/ferry | Land value increase | Services overused | pollution |

**Cold climate**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Boreal | Tundra (TOP) | High Latitude- 50-60 | Cold Winters-29 | Little precipitation |
| Polar winds | Evergreen trees | Tilted away/towards sun | Permafrost | Needle leaves |
| Thick Bark | Bendy branches | Down sloping branches | Shallow roots | Hibernating bears |