**Unit 4: Sustaining Ecosystems Geo-lingo**

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| **Ecosystem [p110]** | A \_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_, together with the e\_\_\_\_\_\_\_\_\_\_\_ in which they l\_\_\_\_\_\_\_\_ |
| **Biotic & Abiotic [p110]** | Refers to the\_\_\_\_\_\_\_\_\_ and non \_\_\_\_\_\_\_\_\_\_ components of an ecosystem |
| **Interdependent [p110]** | Components of ecosystems are interl\_\_\_\_\_\_\_\_\_\_ and r\_\_\_\_\_\_\_ on each other |
| **Stores and Flows [p110]** | N\_\_\_\_\_\_\_\_, w\_\_\_\_\_\_\_ and e\_\_\_\_\_\_\_\_ are either held in a location or are m\_\_\_\_\_\_\_ around in a c\_\_\_\_\_\_\_ |
| **Nutrients** | Found in the s\_\_\_\_; used by plants to help them to g\_\_\_\_\_ |
| **Biomass [p110]** | M\_\_\_\_\_\_ or w\_\_\_\_\_\_\_ of living material. |
| **Litter [p110]** | D\_\_\_\_\_\_\_\_\_\_\_\_ l\_\_\_\_\_\_\_\_\_\_ on the ground, eventually puts nutrients into the s\_\_\_\_\_\_ |
| **Soil [p110]** | A mixture of w\_\_\_\_\_\_\_\_\_\_\_\_ rock and o\_\_\_\_\_\_\_ material. |
| **Leaching [p110]** | When water/heavy rainfall \_\_\_\_\_\_\_\_ away nutrients out of the \_\_\_\_\_ |
| **P [p111]** | Process done by plants; creates energy |
| **S [p111]** | Powers the ecosystem |
| **Producers [p111]** | \_\_\_\_\_\_\_\_ in our speak. Harness sun’s energy; are \_\_\_\_\_\_\_ by animals |
| **C [p111]** | Eat \_\_\_\_\_\_\_\_; in doing so \_\_\_\_\_\_\_\_\_\_ is t\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **F\_\_\_\_\_\_ C\_\_\_\_\_\_ [p111]** | Like a pyramid; P\_\_\_\_\_\_\_\_ on the bottom; top c\_\_\_\_\_\_\_\_\_\_\_\_ or p\_\_\_\_\_\_\_\_\_\_\_ at the top. Energy is t\_\_\_\_\_\_\_\_\_\_\_ along the way. \_\_\_% is lost at each level. |
| **B\_\_\_\_\_\_\_ [p112]** | A g\_\_\_\_\_\_\_\_\_ scale \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ eg a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Climate [p112]** | T\_\_\_\_\_\_ & P\_\_\_\_\_\_\_\_\_ affect plant growth |
| **Productivity [p112]** | Biomes that produce lots of p\_\_\_\_\_ material aka b\_\_\_\_\_\_\_ are described as being h\_\_\_\_\_\_ productive eg a TRF |
| **T [p112]** | UK’s biome type: |
| **d** | Trees that lose leaves in Aut/Winter |
| **TRFs [p112 & 114]** | Found around the E\_\_\_\_\_\_\_\_\_. Sun heats the \_\_\_\_\_\_\_\_; air \_\_\_\_\_\_\_\_. C\_\_\_\_\_ form, it r\_\_\_\_\_. Area of LP. LP =  Heat + Rain = good for p\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ so very p\_\_\_\_\_\_\_\_\_\_\_\_\_  Temp in degrees = Rainfall in mm = |
| **TRFs [p116]** | Cover \_\_\_\_% of the Earth but contain \_\_\_\_% of all World’s species |
| **Tundra [p114]** | Found at the P\_\_\_\_\_\_\_; very c\_\_\_\_; little survives here  Temp = Amt of p.p = |
| **Tundra plants [p115]** | Adapt to cold, dry conditions by being sh\_\_\_\_\_\_ to avoid \_\_\_\_\_\_ damage; growth speed = \_\_\_\_\_\_\_; leaf size is \_\_\_\_\_\_ to cut m\_\_\_\_\_\_ loss. |
| **Deserts [p114]** | Found around the T\_\_\_\_\_\_\_, where air is \_\_\_\_\_\_\_\_\_, due to HP  Temp = in the day and \_\_\_\_\_ at night. |
| **Buttress roots [p116]** | Above \_\_\_\_\_\_\_; like a camera t\_\_\_\_\_\_\_; supports tall trees and allows them to get n\_\_\_\_\_\_\_\_\_\_ before they get l\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Canopy layer** | Acts like an \_\_\_\_\_\_\_\_\_\_ to protect TRF soil from being w\_\_\_\_\_\_\_\_\_ away or baked or e\_\_\_\_\_\_\_\_\_. I\_\_\_\_\_\_\_\_\_ rain. Soil is very i\_\_\_\_\_\_\_\_\_ because the nutrients are in d\_\_\_\_\_\_\_\_\_\_ all the time (24/7/365 g\_\_\_\_\_\_\_\_ s\_\_\_\_\_\_\_\_\_) |
| **D\_\_\_\_\_\_ T\_\_\_\_** | Allow \_\_\_\_\_ to run off the leaves so they don’t get b\_\_\_\_\_\_\_ or battered during rain storms. |
| **D\_\_\_\_\_\_\_\_\_\_\_** | Done by humans in the TRF; causes habitat loss and loss of n\_\_\_\_\_\_\_\_, so soil is less f\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Shifting C\_\_\_\_\_\_\_\_\_\_\_\_** | Sustainable use of the TRF - re-arrange these in order (p118)  Move on Nutrients grow burn trees grow back clear |
| **Rainforest Goods & Services** | CS; CC; WS; F; H/M; E; RMs - list here then decide which are G and which are S |
| **Human impacts on the TRF [p120/21]** | C.L.O.T. !!!!! list here |
| **Costa Rica [p122/23]** | CR.AD. caused D. Government took action = NP; NR, AF; SL; A & M and E/T list here |
| **Eco-t\_\_\_\_\_\_\_\_\_\_\_** | SNR in CR !!! SNR = CR =  Creates local j\_\_\_\_\_ and protects the e\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ so very s\_\_\_\_\_\_\_\_\_\_ (soc, ec & env). Convert p124 B to a diagram to show this |
| **Polar Regions [p126]** | Have l\_\_\_\_, d\_\_\_\_ Winters due to a\_\_\_\_\_\_ of sun’s r\_\_\_\_\_. Ice reflects rays back (a\_\_\_\_\_\_\_\_ effect) |
| **P\_\_\_\_\_\_ Fr\_\_\_\_\_**  **[p129]** | Layer of \_\_\_\_\_ that is permanently frozen. A\_\_\_\_\_ layer thaws in summer. Homes built on stilts so they don’t m\_\_\_\_ the p/f! |
| **phytoplankton** | Microscopic p\_\_\_\_\_\_ |
| **Human activities in the Arctic**  **30% & 13% - relevance?** | I\_\_\_\_\_ live here. They catch S&W but live in harmony with nature. 5 Pressures on the Arctic list them here ME/DOG/F/S/T |
| **C\_\_\_\_\_\_ C\_\_\_\_\_\_** | Threatens the A\_\_\_\_\_ as \_\_\_\_ melts |
| **MWS [p133]** | What? Where? Success? |
| **The Antarctic T\_\_\_\_\_\_\_\_ [p136]** | 1961; 46 prohibits x 2 = ? |
| **Antarctica** | Protect it because it is the last known w\_\_\_\_\_\_\_\_\_ region! |