**Name** ?????

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| The Global Hydrological Cycle |



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| Choose the correct term for the definitions. |
|  | The movement of water through plant cells into the atmosphere. |
|  | Movement of water confined within a river or stream. |
|  | The movement of water into the soil layers. |
|  | The processes by which water reaches the soil or surface. |
|  | Trees and other vegetation, which prevent moisture from reaching the ground directly. |
|  | Movement of water from vegetation to the ground surface. |
|  | The upper level of saturated rocks; it may move between seasons and years. |
|  | Movement of water through the soil, either under gravity, or parallel to the ground surface. |
|  | Movement of water over the ground surface (also known as surface runoff). |
|  | The combined processes by which water is lost by evaporation and transpiration. |
|  | The processes by which water moves through the landscape. |
|  | The change of state from water as a liquid into water vapour (a gas). |

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| Study the diagram of the **global hydrological cycle** (above). List 10 processes shown in the diagram and explain what would cause these processes to increase and decrease. |
| **Process** | **What would cause this process to increase?** | **What would cause this process to decrease?** |
| Transpiration  | Higher humidity / temperatures | Lower temperatures / less vegetation  |
| Channel Flow  | Higher precipitation / more rivers  | Drought |
| Infiltration  | Removal of vegetation  | Hard baked soil / impermeable surfaces  |
| Precipitation  | The seasons (winter) | Global warming changing weather patterns |
| Interception Rate  | More vegetation, tropical rainforests.  | Deforestation  |
| Stem Flow / Drip Flow | More vegetation / wider canopy | Deforestation / tundra  |
| Water Table  | More precipitation / winter | Drier conditions / drought / extraction of groundwater |
| Throughflow | Porous conditions | impermeable ground (rock or heat baked) |
| Evaporation  | Higher temperatures  | Lower temperatures  |
| Process | ????? | ????? |

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| List five different types of **storage** shown in the diagram of the hydrological cycle (above). |
| Storage in Hydrological Cycle 1 |
| Storage in Hydrological Cycle 2 |
| Storage in Hydrological Cycle 3 |
| Storage in Hydrological Cycle 4 |
| Storage in Hydrological Cycle 5 |