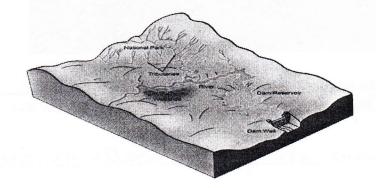
## Hydrosphere Worksheet

area of land where lakes, rivers etc all drain into the same body of water

- 1. Below is a picture of a catchment area.
  - a- What is a catchment area? <u>an extent of land where</u> water from precipitation draway into a body of water (aka diverage basin)
  - b- Explain if all the water will lead to the dam reservoir. yes all flowing



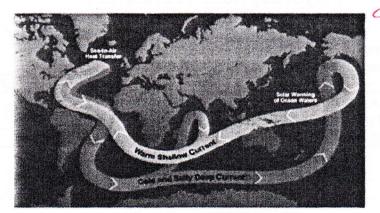
- 2. Name the 5 factors that affect water flow in a watershed? <u>topography</u>, <u>geology</u> <u>climate</u>, <u>vegetation</u> <u>dyrcultural</u>/<u>industrial</u> + <u>urban</u> <u>development</u>
- 3. What 3 factors affect the temperature of the oceans?
- 4. What is the thermocline? transition yone (1 200 m) where water

latitude

- 5. For each statement state whether it is an example of a surface current or a subsurface current.
  a- these currents are altered by density and salinity
  b- these currents are mostly controlled by wind
  c- these currents occur at a depth of more than 800 m
  - d- these currents will cause you to swim off course in the ocean

rocks (wind/water) 6. How is salt formed? \_\_\_\_\_\_ when write ebaparat

7. a- What name is given to the circulation of water shown below? <u>Hermohalene</u>



- - 9. Differentiate between glaciers, icebergs, pack ice and icefloes? fresh water ( snow/ice) on land lacier that has broken off; in water piece or 1 arctic, antarc frazen ever of pack ice (broken pieces
  - 10. Discuss how global warming is causing sea levels to rise? glacier melting .... I water into ocean + 1 rebergs
  - 11. Cruise ships regularly offer tours along the shores of Greenland. Tourists can observe the spectacular blocks of ice that break off from the coast and fall into the sea.
    - a) What are these blocks of ice called? <u>Iceberg</u>
    - b) A few fragments of ice melt in the seawater. This water does not stay near the coast; it moves about. What factors will affect its movement? wind, thermahalene circulation
    - c) Will the water that melts from a glacier eventually arrive at the equator? Explain your answer. yes - thermohalene circulation
  - 12. Give 2 examples of hydraulic energy.

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