A **<u>DIRECTED GRAPH</u>** is a CONNECTED graph that has directed edges.

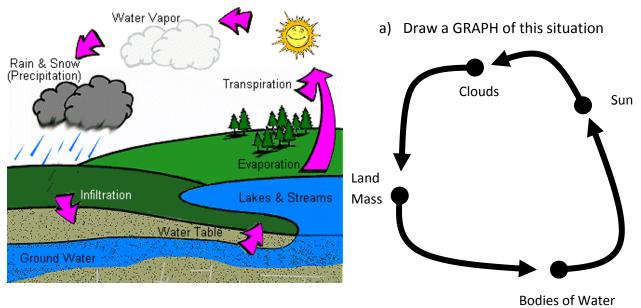
A DIRECTED GRAPH is also called a DIGRAPH

DIRECTED EDGES are indicated using arrow heads.

Where have we seen these before?

- Food Cycles
- Ecological Cycles
- Water Cycles

Ex 1: The WaterCycle

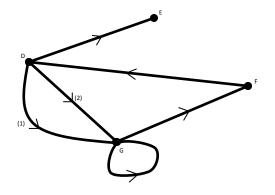


- b) What are the vertices?Bodies of Water, Rain Clouds, Ground, Clouds.
- c) What do the edges represent?The Cycle of the water: Evaporation, Infiltration, Precipitation

Ex 2: Movement Around

In the adjacent graph, name:

- All of the edges {DE, FD, D(1)G, D(2)G, GG, GF}
- A path from F to D FDE
- A circuit GFD(1)G



Practice: Carousel Page 103 # 1 – 16 Visions Page 37 # 1, 10, 15, 18