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| Connections  | Notes: Chapter 1 Section 1-1-1/1-1-2      **HOW DO GEOGRAPHERS DESCRIBE WHERE THINGS ARE?****Highlight People, Places and Vocabulary**  |
| 1.Vocabulary: (Define 4 Terms from Notes) 2. **List  individuals**: (contributions within the notes that can be noted)3. **Image:** (Find two images that can be used to represent the information in the notes) 4. **Significant**: (4 Points that are significant to highlight from the notes) 5. Clarify: ( Identify two things that you may still not understand) | **How Do Geographers Describe Where Things Are?*** The word geography was invented by the ancient Greek scholar Eratosthenes.
* **Geography** is the study of where things are found on Earth’s surface and the reasons for the locations.
* Human geographers ask two simple questions…
	1. Where are people and activities found on Earth?
	2. Why are they found there?
* Themes geographers focus on; Place, Region, Location, Human Environment-Interaction, Movement

**Maps:** * Geography’s most important tool for thinking spatially about the distribution of features across Earth is a map.
* A **map**is a two-dimensional or flat-scale model of Earth’s surface, or a portion of it.
* **Cartography** is the science of mapmaking.
* Maps serve two purposes:
	1. As a reference tool to identify an object’s absolute and relative location.
	2. As a communications tool to convey the distribution of human activities or physical features.

**Types of Maps:*** **Physical** – show physical features such as lakes, deserts, mountains
* **Political** – show boundaries and major cities
* **Thematic** – colored, drawn, or labeled according to a certain theme
	+ 1. Cartogram
		2. Choropleth
		3. Dot density
		4. Graduated symbol
		5. Isoline

**Cartogram Map:** Characteristics:-Thematic; Population, GDP, Distance  -The geometry or space of the map is distorted.- Conveys information in an alternate and variable manner. -They are primarily used to display emphasis and for analysis**Choropleth Map:** Characteristics: -Is a thematic map  -Areas are shaded or patterned in proportion to the measurement of the statistical variable being displayed on the map.(Pop. GDP, Per-Capita)-Choropleth maps provide an easy way to visualize how a measurement varies across a geographic area or show the level of variability within a region.**Dot Density Map:** Characteristics;- thematic map-Uses dots or other symbols on the map to show the values of one or more numeric data fields.- Each dot on a dot-density map represents some amount of data.-In a dot-density map, areas with many dots indicate high concentrations of values for the chosen field and fewer dots indicate lower concentrations.**Graduated Symbol Map:** Characteristics;-thematic mapping-the cartographer selects a symbol and alters its size based on the data values **Isoline:** Characteristics;-Thematic map-There are different types of isoline maps.Contour lines, Isotherms, Isobars,Isotachs and Iso-seismal lines.-connects points of equal value.-Most commonly used to represent weather, and height. **Projection:** * The scientific method of transferring locations on Earth’s surface to a flat map is called a **projection***.*
* Earth’s spherical shape causes distortion when drawing it on a flat piece of paper.
	+ Four types of distortion can result when projecting Earth’s surface:
		1. **Shape** of an area can be distorted.
		2. **Distance** between points may become increased or decreased.
		3. **Relative size** of different areas can be altered.
		4. **Direction** between points can be distorted.

**Three types of map projections:**1. **Mercator**
	* **Shapes of countries are fairly accurate, direction is consistent**
	* **Greatly distorted toward poles**
2. **Robinson**
	* **Allocates space to oceans**
	* **Land areas appear much smaller than they actually are**
3. **Peters**
	* **“Equal area” map – all countries are the correct size**
	* **Shape is greatly distorted**
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| **Essential Question: (ACE Format)**Explain the debate of projection according to Mercator, Robinson and Peters. In your opinion should maps project accurate representation?  | **Summary: (Brief explanation of the notes in your own words 4-5 sentences)**  |