Unit 3 Enduring Understanding:

*Scientific and social progress provide people a greater level of control over their surroundings and their lives, but can also lead to problems.*.

*Essential Question:*

1. *What fields of science were most revolutionized in the 17th Century? 2. How did the concept of natural law eventually impact the Age of Enlightenment?*

**Science before 17th Century…**

* **List Leonardo da Vinci’s many talents:**
* **Montaigne (1533-1592)**
	+ **Describe Skepticism:**

**Witchcraft Panic: At its height (1450-1650)**

*Why were women accused more of being witches?*

|  |  |  |
| --- | --- | --- |
| **Bacon ( )** | **Descartes ( )** |  |
| BOTH:* Publish between
* Address problem of knowledge
* Hold that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ method was backwards
* Truth is the PRODUCT OF \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | **Similarities** |
| * Bacon planned a multi-volume text (**Instauratio Magna**), but only two parts were ever completed.
* Part 1: 1620 – **Novum Organum**:

*INDUCTIVE METHOD -*Define Formalized “Empiricism”* Part 2: 1623 – **The Advancement of Learning**
* **The New Atlantis**: Describes a scientific utopia
* Knowledge could be made practical:
* *Weaknesses* of Bacon’s thoughts:
 | * Invents Coordinate Geometry
	+ Anything can be plotted
	+ 1637: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Principle of Systemic Doubt
	+ Can Not Doubt his own existence because he thinks:
	+ Cartesian Dualism
	+ God Creates \_\_\_\_\_ realities
	+ Thinking Substance and extended substance (not in mind)
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ provides more avenues than \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | **Differences** |

Describe the involvement women had in science: