RS Notes: The Scientific Revolution

**How did thinking change?**

* Medieval scientists did \_\_\_\_\_\_\_ make observations
	+ Looked at the works of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ for knowledge
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ thinkers \_\_\_\_\_\_\_\_\_\_ newly discovered works of \_\_\_\_\_\_\_\_\_\_\_\_, Archimedes, and \_\_\_\_\_\_\_\_\_
	+ Learned that some had \_\_\_\_\_\_\_\_\_\_\_\_\_\_ with Aristotle
	+ Tried to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the differences
* Technical \_\_\_\_\_\_\_\_\_\_\_\_\_, like determining how much a \_\_\_\_\_\_\_\_ could carry spurred a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ towards observation and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	+ New instruments, like \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_, will make these experiments possible
* They used \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to lead these experiments

**Astronomy**

* Born in 2nd Century AD, \_\_\_\_\_\_\_\_\_\_\_\_ was antiquity’s greatest astronomer
	+ Ptolemaic system= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ model of the universe
		- Earth (motionless) is in the \_\_\_\_\_\_\_\_\_\_\_\_\_
		- Planets are different crystal-like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- 10th sphere=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			* It moves, so \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ inside its path moves
		- Beyond this, is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ believed in his \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system
	+ Sun is in the \_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Planets \_\_\_\_\_\_\_\_\_\_\_ around the sun, the \_\_\_\_\_\_\_\_\_\_ around the Earth, and Earth rotates on an \_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ helped to destroy the Ptolemaic system
	+ Observations \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the sun was the center
	+ Tracked \_\_\_\_\_\_\_\_\_\_\_\_\_\_ orbits of the planets
		- Ptolemy said they were \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Englishman \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ responded to one of the questions for the new \_\_\_\_\_\_\_\_ of the universe: What explains \_\_\_\_\_\_\_\_\_\_\_\_\_ in the universe?
	+ He defined \_\_\_ laws of motion
	+ Crucial to his view is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- Every object in the universe is \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to every other \_\_\_\_\_\_\_\_\_\_ by a force called \_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- This explained why \_\_\_\_\_\_\_\_\_\_\_\_\_ bodies did not go off in a \_\_\_\_\_\_\_\_\_\_\_\_ line, but traveled in elliptical \_\_\_\_\_\_\_\_\_\_\_\_\_
	+ This dominated the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ until Einstein’s Theory of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ answered the other question for the new astronomy: What are the \_\_\_\_\_\_\_\_\_\_ made of?
	+ He made \_\_\_\_\_\_\_\_\_\_\_\_\_ observations using a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- Saw \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the moon and moons orbiting \_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Ptolemy said they were made of \_\_\_\_\_\_\_\_\_\_, but now it seems they are made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Galileo vs. The Church**

* Galileo’s work began to make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ aware of the new view of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ He got into \_\_\_\_\_\_\_\_\_\_\_\_\_\_ with the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- The \_\_\_\_\_\_\_\_\_\_ ordered him to abandon the new system
		- Copernican model \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that of the Church and the \_\_\_\_\_\_\_\_\_\_\_
			* The heavens were not \_\_\_\_\_\_\_\_\_\_\_\_\_ but \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_ was no longer in a specific place
			* Most \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, however, believed the new \_\_\_\_\_\_\_\_\_\_\_\_ was correct