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| Topic | Notes |
| Timeline of the Big Bang | * Primordial Atom/ primeval atom or cosmic egg
* Heat and gravity being created
* Electrons, protons and neutrons being created
* No matter formed 🡪 hydrogen fusion 🡪 first stars & galaxies form
* Stars dies 🡪 planets form
* Universe is expanding
* Future projections:
	+ Andromeda galaxy (blue shift) – eventually collide with our galaxy
	+ Stars burn out ~100 trillion years
	+ Cool down
	+ Gravity crushes it back to cosmic egg
	+ Dark energy will rip everything apart
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| Lemaitre | * Expanding universe
	+ Cosmic egg 🡪 expanding out
	+ Thought universe had no sides/never ended
	+ No proof – due to miscalculations
* Priest
	+ Thought the Catholic Church would reject his ideas
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| Hubble | * Thought universe was expanding
* Evidence
	+ Hubble constant- formula for rate at which the universe expands
	+ Every other star/galaxy showing red shifts
	+ Andromeda galaxy is the only blue shift
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| Wilson/PenziasCOBE- SmootBackground Radiation | * Worked with NASA on a research project called ECHO
	+ Create longer transmission of radio waves
	+ Found unaccounted radio waves
	+ Found radiation no matter where they looked
* Used COBE satellite to make the map of early universe
* Really looking back in time at the early universe since the background radiation is still traveling towards us
* Generally speaking within the scientific community this research is accepted
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