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| Topic | Notes |
| Timeline of the Big Bang | * Happened 13.7 billion years ago
* Started as a cosmic egg/primordial atom
	+ Hot dense material
	+ Protons, electrons & neutrons
* Dark age – universe expanding
	+ No stars, hydrogen fusion 🡪 heavier elements
* Stars & galaxies forms
* Today: universe is still expanding
* Predictions:
	+ Andromeda galaxy is going to collide with ours
	+ Keep expanding 🡪 star die out 🡪 no life
	+ Gravity is collapse on itself and potentially another big bang could happen
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| Lemaitre | * Priest
* Theory that the universe was expanding
	+ Distance and light – red shift
	+ Linear relationship between distance of galaxies and their shifts
* Not accepted at first
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| Hubble | * Found pulsating stars
* Universe is expanding
	+ Red shifts
	+ Classified galaxies
	+ Hubble constant – H=V/D finds the rate at which galaxies/stars move away from us
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| Wilson/PenziasCOBE- SmootBackground Radiation | * NASA research for ECHO project – they trying to increase the transmission signals of radios
* Found background radiation by accident
* COBE – cosmic background explorer
* Creates a map of the universe background radiation
* Looking into the past when looking at this data
	+ Takes light years to get here
	+ Background radiation is everywhere and that there was a large explosion to create is so it provides evidence that the Big Bang occurred
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