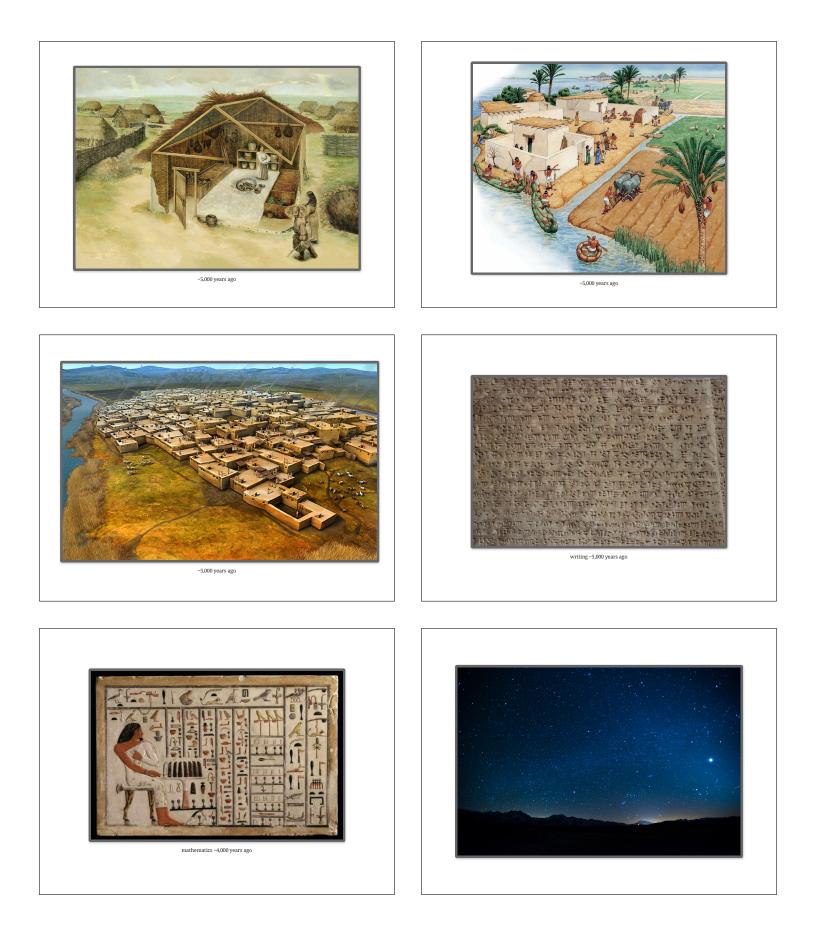
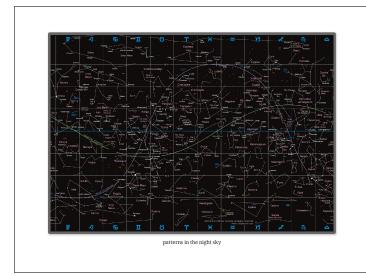


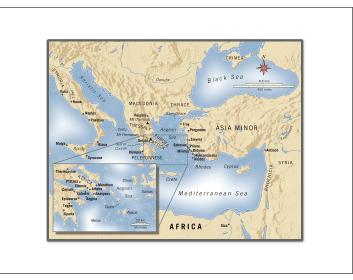


~17,000 years ago













Thales 626-545 BCE "All things are made of water."

- Thales made first recorded attempt at a naturalistic explanation of things.
- He relied on experience and observation to come up with general claims.

PITAGORAS

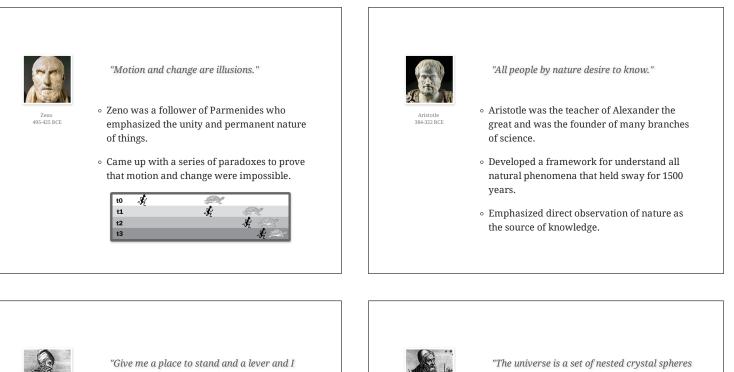
Pythagoras 570-495 BCE "All things are structured by numbers."

- Pythagoras emphasized proportion, symmetry and order as essential to the nature of things.
- Leader of a vegetarian mystical cult in Sicily.
- Distressed by the discovery of irrational numbers.



"You can't step into the same river twice."

- Heraclitus was an early philosopher who attempted to describe the nature of things in general terms.
- Emphasized change and motion, denying that anything had permanent features.
- Believed that the world was ultimately logical and understandable.





Archimedes 288-212 BCE "Give me a place to stand and a lever and I will move the whole world."

- Archimedes was an engineer, scientist and mathematician.
- Developed theory of simple machines: lever, pulley and screw that have mechanical advantage.
- Famous for his "eureka" moment in a bathtub.

Ptolemy 100-170 CE rotating around the earth."

- Ptolemy created first comprehensive model of the known physical universe.
- His "geocentric model" of the cosmos would be consensus view for 1500 years.
- Synthesized the best theoretical and astronomical knowledge of his time and sought to "preserve the phenomena."