# History of Space Science to 1700s

## Expectations

1. Describe how ea	rly cultures created	to explain the universe.	
2. Explain the difference tem.	rences between the	System and	Sys-
3. Describe how hu	mans' understanding of the	universe developed in	
4. Describe how each tems.	ch scientist contributed to t	he and	sys
Myths			
	ankind, early civilizations to explain the universe	did not understand modern science.	e. They
Example I: Pangu	Creates the World		
• From	<del>.</del>		
• Pangu used his	nands and legs to break th	e chaos.	
• His	eye became the Sun.		
• His	eye became the Moon.		
• His	became the soil.		
Example II: The To	ırtle Island Myth		
• From			
• The Earth was f	ormed on the back of a gia	ant – "Turtle Island"	•
• A woman gave b	oirth to twins.		
• The	Twin placed the Sun in the	e sky for	
• The	Twin placed the Moon in	the sky for	
• Such myths expl	ained the	before scientific astronomy.	

## Ancient Greek Astronomy

### Eudosus (390–337 BCE)

•	•		
• Proposed the first	st geometric model	of planetar	ry motion.
• Used	concentric spheres	s with Eartl	h at the center.
• First to use	and _		to analyze the heavens.
Aristotle (384–322	BCE)		
• Expanded Eudos	sus's model using a	bout	concentric spheres.
• Earth is a	and	at th	e universe's center.
• Everything trave	els in	,	
• The universe is	ar	nd finite.	
Ptolemy (100–170 .	AD)		
• Developed the _	Mo	odel.	
	to exp		
II alia aantuia Cara	v4 o -o-o		
Heliocentric Sys	stem		
Copernicus  • Proposed the	Uni	vorso	
	d by		
			no epicycles needed.
	_ explained by Lare	ii s iiiouioii,	no opiogolos nocaca.
Tycho Brahe			
• Built	·		
• Proposed a	model	l.	
Johannes Kepler			
• Showed planetar	ry orbits are	·	
▲ Laws of Planeta	ry Motion:		

#### Galileo Galilei

- First to use a \_\_\_\_\_ for astronomy.
- Discovered moons of \_\_\_\_\_.
- Opposed the \_\_\_\_\_ model.
- ullet Condemned by the \_\_\_\_\_.

### Student Activity II