Galileo & the Telescope— Sept 20

Test 1

Galileo makes a telescope in 1609

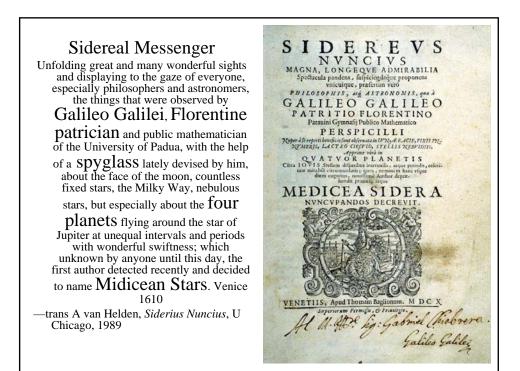
- Galileo discovers
 - Moons of Jupiter
 - Mountains on the moon
 - New stars
 - Milky Way has many stars
 - Phases of Venus
 Disproves Ptolemy's earth-centered model
- A model of discovery enabled by a new instrument
 - What cannot be seen cannot be discovered
 - Many discoveries were made soon after a new technology or instrument was built.



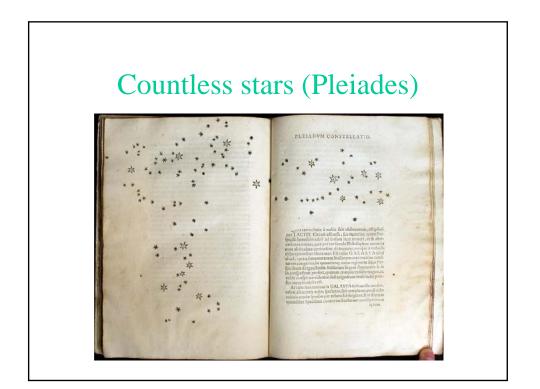
Galileo by Tintoretto http://galileo.rice.edu/images/people/galileo/g_tintoretto.gif

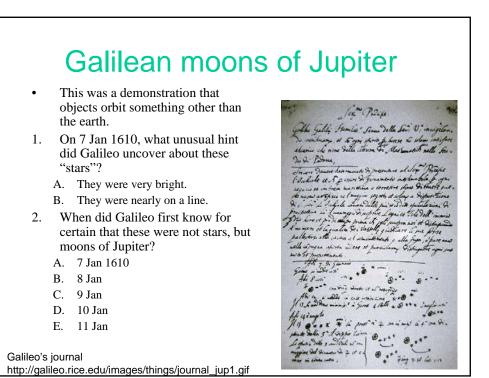
	Test 1
• Test	1
– V	Ved 9/29
- (lovers
	• Material through today's class (9/20)
	• Homework 1-3
– F	Bring one 8.55×11" cheat sheet (front & back)
— J	ests are written, not multiple choice. Average was 67% for Fall 2009.
• "Ho	w to study" on Mon, 9/27. Focus on main ideas, then details.
	souri (Show me) Club
	Sues 9/28; 7:40-8:40pm, room 1420.
• Prac	tice test (test from fall 2009). Link is on syllabus on angel.
	<u>17</u> <u>H02</u> Kepler's Laws of planetary motion. §3.3
18	17 H02 Kepler's Laws of planetary motion. §3.3 38—Size of the Solar System & Distances to the Nearest Stars
18	33—Size of the Solar System & Distances to the Nearest Stars 20 Galileo invents the telescope. (Sidereus Nuncius, pp. 64–67.)
18	338—Size of the Solar System & Distances to the Nearest Stars 20 Galileo invents the telescope. (<u>Sidereus Nuncius</u> , pp. 64–67.) 22 Newton's laws of motion & gravity §3
1	33—Size of the Solar System & Distances to the Nearest Stars 20 Galileo invents the telescope. (Sidereus Nuncius, pp. 64–67.)
1:	338—Size of the Solar System & Distances to the Nearest Stars 20 Galileo invents the telescope. (Sidereus Nuncius, pp. 64–67.) 22 Newton's laws of motion & gravity §3 24 H03 24 H03











- How does the evidence disprove that they are stars?
- Assume the three objects seen near Jupiter on 7 Jan 1610 were real stars. Draw what Galileo would have seen on Jan 8th.
- 3. Spacing between the stars is as on the 7th.
 - A. the same
 - B. different
- 4. Distance from easternmost star to Jupiter is ____.
 - A. precisely the same
 - B. different.

