SkyGazer

Your Name:	Date:
Introduction to SkyGazer	
Orbits in the solar system	
Open the SkyGazer program (Macintosh HD, Applications, SkyGazer 4, Next use the Explore Menu to select The Solar System	SkyGazer 4)
Adjust the sliding bars so that you're looking down on the solar system frof the Sun and adjust the date to today. Experiment with the controls in the (time, scale, items shown). Note that the speed at which time advances is in the view location.	he right-hand window
When does the next Mars opposition occur?	
How long is the time interval between two Mars oppositions?	
When does the next Venus inferior conjunction occur?	
When does the next Venus superior conjunction occur? Remember to reset the clock to today before answering each question	n
Using the purple gridlines as a guide, approximately when does Mercury (closest distance to the Sun)?	next reach its perihelion
When does Mercury next reach its aphelion (furthest distance from the Sun)?	
How were the positions of Saturn, Uranus and Neptune related on 1 March 1989?	
Which planet is on almost exactly the opposite side of the Sun from Uranus on 1 March 1989? How long does Pluto take to orbit the Sun?	

Several planets, including Pluto, have orbits that are not close to circular. Adjust the sliding bars so that you're not looking down on the solar system from above the North Pole of the Sun. What else is unusual about Pluto's orbit?
Planets in the night sky
Close the "Exploring the solar system" window. If the Display, Time, and Location Panels are not open, use the Window menu to open them.
Use the Location Panel to change the longitude to 71 deg West and the latitude to 42 deg North (Boston). Experiment with the controls in the Time Panel and the sliding bars on the main window. Spend some time working out exactly what is displayed on the screen, which way up is, and which way north is. Use the zoom control and the sliding bars to view the entire sky.
What planets will be visible through a telescope in the night sky tonight?
Which planet is closest to the Sun in the sky?
What time does (or did) the Moon rise at TODAY?
Look north. Describe the motion of the stars through 1 night
Imagine you are a professor teaching AS101. Write your own question for students to answer using this sky chart and provide the answer.
QUESTION:
ANSWER:

Other possible activities (NOT GRADED)
Explore some of the other capabilities of the SkyGazer program.
What did you look at?
Why did you choose to look at it?
why did you choose to look at it.
Describe what you saw
What did you like about the SkyGazer program?
,
What didn't you like about the Sky Cozer program?
What didn't you like about the SkyGazer program?