Astronomy Calendar

Day	What studied	Activity	hw	materials
		Unit 1 The Night Sky		
1	Our place in the Universe, seeing into the past, and the horizon system	Disclosure Document, Hand out the "about me paper". Possible mystery cube activity. Start the first PowerPoint (ch1), degree activity, Looked at sun spots with telescope	Homework 1	
2	more horizon system, the celestial sphere, and constellations	Introduce that season's constellations (pass out sheet for kids to study from). First part of PP on celestial sphere and constellations. Activity with star chart where the students measure the Azimuth and Altitude of different stars. Video on the Constellations		Copies of the star chart activity The Celestial sphere with the earth enclosed
3	Diurnal, ecliptic, zodiac const., seasons, day length	Introduce constellation project, Java applets and notes. Activity where the students line the room and we use a giant yellow balloon as the sun Balloon Activity ????	Students have to come up with their own explanation of retrograde motion	Rulers, balloons Big yellow balloon
4	the moon, lunar nodes, moon phases, eclipses	Review constellations The moon, Moon phase diagram paper and lecture Moon Notes. Video on the Moon	Moon Phase Diagram	
5	Moon as a clock & Retrograde Motion	Constellation quiz, explain and pass out the moon clock worksheet. Lecture Retrograde Motion and Planets	Moon as a Clock	
6	Internet Activity	Internet Activity to review the topics we have been discussing.		Computers
7	Constellation Presentations	presentations		
8	Review for test	Jeopardy Review for the test Work on the review sheet and any missing assignments for the rest of class	Review sheet for test	
9	Test	Test unit one (night sky)		
		U2 History of		
		Astronomy		
1	History of Astronomy	Learned the new const. Opening Power point where we look at those pictures of old stuff and calendar. We did the calendar/solar system paper. (Might be some spare time at end of class)		
2	Greek astronomers	Students use the computers and make a timeline for the greek astronomers. There is a paper for this.		Computers
3	Aristarchus and the solar system model	Take students out to foot ball field and talk to them about Aristarchus and how huge the solar system is, give them papers to tell them where the planets would be. Then go back to class and do the solar system model activity (use instruction sheet) Possible video ???		Kids need calculators, rulers, meter sticks and tape
4	Eratosthenes and the size of the Earth	Lecture all ancient astronomers today. Students will measure the size of a fake Earth in a similar manner used by Eratosthenes. (use instruction sheet)		
5	Copernicus and Brahe	Copernican Webquest and a look at the progression of retrograde motion and stellar parallax with Brahe.		Computers
6	KeplerEllipse	Started with a review of the constellations, had a brief discussion about what an ellipse is and then I showed the class what to do for mars. Did the Ellipse activity. Use the paper. Watch short history video.		

7	GalileoVideo	Took the Constellation Quiz. Went over		
1	Gameo video	the Renaissance astronomer notes, and		
		ended the class with the Galileo video.		
8	Review	History jeopardy, and passed out the review sheet	Review sheet	
9	Test	Test unit two (history)		computers
		U3 Solar System		
1	Introduced planet project	Introduce new constellations	Solar system story board	
	Creation of Solar System Day	Described the Project the students will be		
		doing in class. Had the students use the		
		books to make a story board for the		
2		creation of the solar system. Watched a short video on the planets and	Comparative planetology	
2		then had the students do the comparative planetology paper.	comparative planetology	
3	Research day / outline of	Day 1 of planet projects. Students need		Computers
	project	to research the information they need to		Go to the library to do th
	1 0	fill out the story board page as they		stuff for this day.
		collect pictures and write out their script.		
4	Intro to solar system and	Review the constellations	Moon Hand out	
	common planet facts	Go through the intro PP. Students should		
		be able to talk a lot about the formation of solar system from their story boards.		
		Have students do the short handout on		
		the Moon.		
5	Make the video day	Students will use their outlines to create		Computers
		their short commercials for their planets.		
6	Comets and Meteors	Go over constellations		Computers??
		Power point on comets and meteors, give students time to finish their		
		advertisements. Short video on this topic		
7	Light/spectroscopy/telescopes	Discuss light and telescopes use the PP.	Spectral lines ws (maybe)	
•	Light operations oppi telescopes	Demo the spectral lines with the gas	Speedaa liites (ii (iiagee)	
		tubes and the diffraction grating. Let		
		students look over the small telescope in		
		the corner. Students should use the time		
		at the end of class to finish any		
	Dresentation Deal	assignment that are still pending.		Comm 1 cont
8	Presentation Day!	Watch all the commercials made by the students and then have the students fill		Comp 1 cart
		out the paper on the planets		
9				
	Internet Activity	Internet activity on the information we		Computers
	Internet Activity	have learned this unit.		Computers
10	review	have learned this unit. Jeopardy review game	Review sheet	Computers
10 11		have learned this unit. Jeopardy review game Solar System Test!	Review sheet	Computers
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39	Review Day	found on the web 25 min, then let the students work on their comics or back work. Played Jeopardy	
40	Stellar Evolution Test	Test	
		The End	
41		Review for the constellation final. Students need to work on remediation for the tests we have taken. Possible video for those who are all caught up and done.	
42		To the Moon and Back	
43		Second review for the constellation test Paper Rocket lab—failing students remediate	
44		Finalvideo	