



Science - Astronomy

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Options Standa	ards Essential Questions	Content	Skills	Suggested Resources	Assessment	Resources
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	Universe and It's Origin					
	What is cosmology? How does cosmic background radiation suppor the Big-Bang Theory? Why do astronomers theorize that most of the matter in galaxies and clusters of galaxies is dark matter? What does the Big Bang Theory propose?	Models of the Universe Our Galaxy, the Milky Way The Dimensions of the Milky Way Our Position in the Galaxy Discovering Other Galaxies Classification of Galaxies Formation of Our Solar System The Big Bang Model	Illustrate the inferred shape of our galaxy and our position in the galaxy. Plot, interpret, and analyze data regarding Galactic distance and predicted speed. Illustrate the formation of the solar system. Compare the distances between stars and planets. Compare and contrast the different theory models for the formation of the Universe.	Cosmic Voyage (Video) Cosmic Voyage (An IMAX film narrated by Leonard Nimoy), takes students on a trip through through outer space by focusing on the size of our solar system, galaxy, and universe. It also shows students inner space - what can be found inside of a single atom. Worksheet is true false and fill in the blank - video is 45 minutes long. Bill Nye the Science Guy (Outer Space Video) 15 question true / false and fill in the blank quiz to		Astronomy 2009 Opening Day Assignment.doc Bill Nye Outer Space Video Quiz.doc BlaineHubbleEotos.pps Cosmic Voyage Video.doc Cosmic Voyage Video.doc Nasascavengerhunt.doc

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				Student note sheet to go along with PowerPoint presentation of the same name. Study Guide Astronomers - Review sheet for astronomers unit. Covers the geocentric and heliocentric models. Includes a list of astronomers and their major accomplishments. Guiz on Ancient Astronomers - 15 question multiple choice quiz	
	Tools of Celestial Observation				
		Light Year	State the various locations of Radio Telescopes throughout the world. State what the Deep Space Network is. Define the term light year Identify why the term parsec is used in Astronomy		-Mars Powerpoint Notes.ppt Magic School Bus Space Video Sheet.doc Mars - Journey to Video (Alan Alda).doc Mars Boot Camp Quest. Oct. 2001 Pop Science.doc Mars Dead or Alive Video Sheet.doc Mars Dead or Alive Video Sheet.doc Mars Powerpoint Notes.ppt Mars Rover Activity.doc Mars Test.doc Planet Lab - Size Matters 2009.doc Planet Project 2009 Astronomy.doc Planet Project 2010 Astronomy.doc Planet Project Geology and Alien Life Form Paper.doc Planet Project Spaceship 3 paragraph paper.doc Planets - and then there was Voyager (Video).doc Planets - Venus and Mercury.pptNOTES.ppt

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How do stars evolve?	The Evolutionary Cycle of Stars	Explain how stars are formed		
		Describe a black hole		
	Black Holes			
		What are the effects and		
	Worm Holes	causes of a worm hole?		
What is the relationship between space and time travel?	Space and Time travel	Explain how time travel could be possible?		
The Planets and Other Celestial Bodies				
	Mars	Correctly use formulas to	And then there	Apollo Project Question
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Why are there so many differences in the planets in	a. Martian Exploration (Past, Present,	convert AU/Km/Miles Correctly use formulas to	was Voyager (Video) - Goto First Class	Sheet.doc apolloproject2007- 2008.doc
Why are there so many differences in the planets in our solar	a. Martian Exploration (Past, Present, Future)	convert AU/Km/Miles Correctly use formulas to convert	was Voyager (Video) - Goto First Class Video produced	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon
Why are there so many differences in the planets in our solar system?	a. Martian Exploration (Past, Present, Future) b. Martian Life-	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin	was Voyager (Video) - Goto First Class Video produced by Holiday Films	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc
Why are there so many differences in the planets in our solar system? Why is it	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 1&2.doc From the Earth to the Moon
Why are there so many differences in the planets in our solar system? Why is it important to	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc Erom the Earth to the Moon
Why are there so many differences in the planets in our solar system? Why is it important to explore other	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2 and	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384 doc
Why are there so many differences in the planets in our solar system? Why is it important to explore other planets?	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon
Why are there so many differences in the planets in our solar system? Why is it important to explore other planets?	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of these two space	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon 586.doc
Why are there so many differences in the planets in our solar system? Why is it important to explore other planets? How does a	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus Earth and	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems Describe problems that	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of these two space missions	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon 586.doc Gemini Mercury Quiz
Why are there so many differences in the planets in our solar system? Why is it important to explore other planets? How does a planet's	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus Earth and Moon	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems Describe problems that astronauts could encounter	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of these two space missions launched back in	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon 586.doc Gemini Mercury Quiz Review.doc
Why are there so many differences in the planets in our solar system? Why is it important to explore other planets? How does a planet's environment and reographic	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus Earth and Moon	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems Describe problems that astronauts could encounter during a trip to Mars	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of these two space missions launched back in 1977. Worksheet	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon 586.doc Gemini Mercury Quiz Review.doc Mercury Gemini Test 2007-
 Why are there so many differences in the planets in our solar system? Why is it important to explore other planets? How does a planet's environment and geographic features 	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus Earth and Moon Jupiter	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems Describe problems that astronauts could encounter during a trip to Mars	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of these two space missions launched back in 1977. Worksheet contains 9 fill in	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon 586.doc Gemini Mercury Quiz Review.doc Mercury Gemini Test 2007- 2008.doc
 Why are there so many differences in the planets in our solar system? Why is it important to explore other planets? How does a planet's environment and geographic features influence the 	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus Earth and Moon Jupiter a. Io	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems Describe problems that astronauts could encounter during a trip to Mars Summarize the features that	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of these two space missions launched back in 1977. Worksheet contains 9 fill in the blank	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon 586.doc Gemini Mercury Quiz Review.doc Mercury Gemini Test 2007- 2008.doc Mercury Program.doc
Why are thereso manydifferences inthe planets inour solarsystem?Why is itimportant toexplore otherplanets?How does aplanet'senvironmentand geographicfeaturesinfluence thetechnology	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus Earth and Moon Jupiter a. Io b. Callisto	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems Describe problems that astronauts could encounter during a trip to Mars Summarize the features that allow Earth to sustain life.	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of these two space missions launched back in 1977. Worksheet contains 9 fill in the blank questions.	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon 586.doc Gemini Mercury Quiz Review.doc Mercury Gemini Test 2007- 2008.doc Mercury Program.doc NASA's New Moon
Why are thereso manydifferences inthe planets inour solarsystem?Why is itimportant toexplore otherplanets?How does aplanet'senvironmentand geographicfeaturesinfluence thetechnologyneeded to	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus Earth and Moon Jupiter a. Io b. Callisto c. Ganymede	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems Describe problems that astronauts could encounter during a trip to Mars Summarize the features that allow Earth to sustain life.	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of these two space missions launched back in 1977. Worksheet contains 9 fill in the blank questions. Pondering the	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon 384.doc From the Earth to the Moon 586.doc Gemini Mercury Quiz Review.doc Mercury Gemini Test 2007- 2008.doc Mercury Program.doc NASA's New Moon Rockets.ppt
Why are thereso manydifferences inthe planets inour solarsystem?Why is itimportant toexplore otherplanets?How does aplanet'senvironmentand geographicfeaturesinfluence thetechnologyneeded toexplore the	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus Earth and Moon Jupiter a. Io b. Callisto c. Ganymede d. Europa	convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems Describe problems that astronauts could encounter during a trip to Mars Summarize the features that allow Earth to sustain life. Design a life form that could	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of these two space missions launched back in 1977. Worksheet contains 9 fill in the blank questions. Pondering the Planets	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon 384.doc Gemini Mercury Quiz Review.doc Mercury Gemini Test 2007- 2008.doc Mercury Program.doc NASA's New Moon Rockets.ppt RaceToSpaceGdNotes.doc
Why are thereso manydifferences inthe planets inour solarsystem?Why is itimportant toexplore otherplanets?How does aplanet'senvironmentand geographicfeaturesinfluence thetechnologyneeded toexplore theplanet?	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus Earth and Moon Jupiter a. lo b. Callisto c. Ganymede d. Europa e. Exploration	 convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems Describe problems that astronauts could encounter during a trip to Mars Summarize the features that allow Earth to sustain life. Design a life form that could survive the features and 	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of these two space missions launched back in 1977. Worksheet contains 9 fill in the blank questions. Pondering the Planets (Worksheet) -	Sheet.doc apolloproject2007: 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon 384.doc Gemini Mercury Quiz Review.doc Mercury Gemini Test 2007- 2008.doc Mercury Program.doc NASA's New Moon Rockets.ppt RaceToSpaceGdNotes.doc Space Shuttle & ISS Test
Why are there so many differences in the planets in our solar system? Why is it important to explore other planets? How does a planet's environment and geographic features influence the technology needed to explore the planet?	a. Martian Exploration (Past, Present, Future) b. Martian Life- Fact vs. Fiction Mercury Venus Earth and Moon Jupiter a. lo b. Callisto c. Ganymede d. Europa e. Exploration (Past, Present, Entre 2)	 convert AU/Km/Miles Correctly use formulas to convert Farenheit/Celsius/Kelvin Interpret the ESR Table and apply information to questions about the given data on solar systems Describe problems that astronauts could encounter during a trip to Mars Summarize the features that allow Earth to sustain life. Design a life form that could survive the features and properties on a given planet. 	was Voyager (Video) - Goto First Class Video produced by Holiday Films focuses on the launch of Voyager 1 and Voyager 2, and the findings of these two space missions launched back in 1977. Worksheet contains 9 fill in the blank questions. Pondering the Planets (Worksheet) - Goto First Class	Sheet.doc apolloproject2007- 2008.doc From Earth to Moon 182.doc From the Earth to the Moon 10.doc From the Earth to the Moon 384.doc From the Earth to the Moon 384.doc Gemini Mercury Quiz Review.doc Mercury Gemini Test 2007- 2008.doc Mercury Program.doc NASA's New Moon Rockets.ppt RaceToSpaceGdNotes.doc Space Shuttle & ISS Test 2009-2010.doc

adaptations	Saturn	Support the reason for each of	"Handy Space	Discovery.pps
would be		the characteristics given to the	Answer Book" in	Space Shuttle
needed to live	Uranus	"created" life form, in terms of	order to do this	Enterprise.ppt
on other		surviving and adapting to	worksheet. 52	Space Shuttle Quiz 2.doc
planets?	Neptune	conditions on the planet.	questions covers	Space Shuttle Quiz Review
			all of the 9	Sheet.doc
	Pluto	Identify various technologies	planets. Fill in	Space Shuttle Quiz.doc
		used to explore space in the	the blank.	Space Shuttle STS-1
	Exosolar	past and present.		Columbia worksheet.doc
	Planets	A substation and so that	Planet Project -	Space Shuttle Video -
		Accurately represent scaled	Goto First Class	Discovery Channel.doc
	Phase of Moon	objects of the solar system	This project is	SpaceRace!.ppt
		Clossify a planet based upon	meant to span 3-	Yurigagarin.doc
	Tides	its characteristics	4 weeks, with	
			approximately 2	
	Moon surface,	Describe methods for grouping	days of library or	
	geology, age of	planets and give examples of	computer lab time	
	surface, crater	planets in each group	scheduled into	
	formation	planeto in edon group.	each week during	
			the classroom	
	Eclipses: Lunar	Describe properties and	period. Students	
	and Solar	features common to the Jovian	nave to research	
		planets.	find specifics	
	Mars		about its deology	
	a. Phobos	Describe the properties and	and atmospheric	
	b. Diemos	features common to the	composition.	
		terrestrial planets.	They then have to	
			design an "alien",	
		Identify features or properties	and create a	
		of individual planets that are	travel brochure	
		unusual.	for their planet.	
			Classroom	
		Define satellite and identify two	activities should	
		planets with no satellites.	coincide with the	
		Identify the moons of specific	project to further	
		planets.	understanding.	
			Rubric included	
		Name the inner planets and	with grade sheet.	
		describe their arrangement and		
		orbits in the solar system.		
			Walking	
		Compare and contrast Earth	Through a Scale	
		with the other terrestrial	Model of Our	
		planets.	Solar System	
			(Lab) - Goto First	
		Compare and contrast the	Class	
		structures and atmospheres of	nustrates to	
		the outer planets with those of	students now rai	
		the inner planets.	apart the planets	
			down solar	
			system that the	
			instructor has to	
			set up on the	
			school grounds.	
			Students also	
			have to calculate	
			distances to other	
			objects such as	
			Proxima Centauri	
	1			



water, size





Exploration





			Students will consider the type of surface transportation that would be necessary for a mission to Mars. They will also think about ways to overcome the challenges to exploration presented by the characteristics of the Martian surface and its surrounding space.	
Space Exploration				
Exploration What would our perceived place in the universe be without space exploration?	A. The Birth of Rockets . The Start of the Cold War a. Sputnik I b. Sputnik II c. Sputnik III II. Intercontinental Ballistic Missiles a. Uses b. Fears Prototype Rockets of the Future I. (Log onto www.NASA.gov for the latest information on this topic) III. The Creation of NASA a. Who created the agency b. Why it was created . Pioneers of Rockets Travel I. Uses for rockets	Recognize and discuss the early Soviet contributions in the race towards space List the contributing factors that led to the creation of NASA Identify and summarize the contributions of the early pioneers of rocket travel Compare and contrast solid fueled and liquid fueled rockets Explain the historical importance of solid fueled rockets in both ancient and modern cultures Label the parts of a rocket Recognize and illustrate the phases of flight Describe and discuss prototypes of rockets and their benefits to the U.S. Space program and it's economy	Race to Space PowerPoint) - Goto First Class Presentation covers start of Space Race with launch of Sputnik, looks at the reason NASA was formed, and then focuses on Yuri Gagarin and Alan Shepard (the first Soviet, and the first American in space). Project Mercury and Project Gemini are introduced to the students, with the anticipation planted of the first Apollo landing on the moon. Race to Space Guided Notes - Goto First Class Guided note sheet to follow along with PowerPoint presentation of the same name.	Apollo Project QuestionSheet.docapolloproject2007:2008.docFrom Earth to Moon1&2.docFrom the Earth to the Moon10.docFrom the Earth to the Moon3&4.docFrom the Earth to the Moon3&4.docGemini Mercury QuizReview.docMercury Gemini Test 2007.2008.docMercury Program.docNASA's New MoonRockets.pptRaceToSpaceGdNotes.docSpace Shuttle & ISS Test2009-2010.docSpace Shuttle 2 pptpptSpace Shuttle Quiz ReviewSpace Shuttle Quiz ReviewSpace Shuttle Quiz ReviewSpace Shuttle TestSpace Shuttle Quiz ReviewSheet.docSpace Shuttle STS-1Columbia worksheet.docSpace Shuttle VideoDiscovery Channel.docSpace Rout Itel VideoDiscovery Channel.docSpace Rout Itel VideoDiscovery Channel.docSpaceRacel.pptYurigagarin.doc
	II. Rockets as		anu ule	

weapons III. Founders of spaceflight a. Konstantin Tsiolkovsky b. Dr. Robert Goddard c. Hermann Oberth d. Wernher von Braun C. Types of Rockets I. Solid Fuel Rockets II. Liquid Fuel Rockets I. Anatomy of Rockets a. Rocket parts b. Phases of Flight 1. Launch 2. Flight 3. Burnout 4. Peak Altitude 5. Descent 6. Touchdown c. Forces that affect Flight 1. Drag 2. Thrust 3. Gravity

Adventure of Space Exploration (Video)- Goto First Class 20 true / false and fill in the blank questions that follow along with the video entitled "Rocketmen" by the Discovery Channel. Covers the life of Robert Goddard and Wehrner Von Braun, as well as the United States Space Program culminating with the manned lunar landing. Flight Phases of a Rocket / Anatomy of a Rocket (Handout) - Goto First Class Student handout focused on parts of a rocket, and their normal flight path post-launch. A primer for students prior to building their own rockets. History of Rocketry (PowerPoint) -Goto First Class PowerPoint presentation that covers the history of rockets, including rocketry founders Konstantin Tsiolkovsky, Robert Goddard, Hermann Oberth, and Wernher von Braun. History of Rocketry PowerPoint (Notes) - Goto First Class Guided note



			model rocket building, and videos viewed in class.	
History of Manned Spaceflight				
How would life be different if the U.S. was not the first country to land a manned space craft on the Moon? What is it about the human spirit that allows us to continue space exploration in the face of disaster?	A New Beginning - The American Shuttle Program a. Challenger Disaster b. Columbia Disaster c. Future of the Shuttle? Early Pioneers I. Early Manned Soviet Flight a. Yuri Gagarin II Early Manned American Flight a. Alan Shepard b. John Glenn American Space Programs a. The Mercury Program 1. The Mercury Seven b. The Gemini Program 1. The New Nine c. The Apollo Program 1. Apollo 1 Disaster 2. Apollo 8-17 Highlights 3. Apollo 13 Near Disaster	 Evaluate the contributions of early space flight pioneers Construct time-line of historical space exploration Explain the importance of being the first country into space and the financial impact on that country Investigate the causes of space disasters and near space disasters Compare and contrast the technology of the various rockets in the US and Soviet space programs Justify or criticize the existence of the U.S. Space program and make a recommendation for the future 	Flight of STS-1 (Space Shuttle Columbia) - A computer worksheet activity that looks at the first flight of the space shuttle in 1981. The Space Shuttle (Video) - This worksheet follows along with the video of the same title. The video was produced by the Discovery Channel, and looks at the process of getting a shuttle ready for launch. Review Sheet for Space Shuttle Quiz - A worksheet with 16 questions that focuses on the main points touched on in class in regards to the space shuttle and the disasters associated with its launch. The Space Shuttle (Quiz) - 19 question quiz on the space shuttle and its required hardware.	Answers' spaceraceAmericasEuture.docArticle generic.docArticle Summary.docEveryone's Space PreviewQuestions.docInside the Space StationInside the Space StationInside the spacestation.docISS Space Station Lab 2009-2010 rewrite.docISS Worksheet.docISS Worksheet.docSpace Station Lab.docSpace Station Lab.docISS Worksheet.docNASA Spinoff2009-2010.docTechnology we have todayNASA.doc

Powerpoint presentation put to music by the band Rush - song is entitled "Countdown", and it tells the story of the first space shuttle launch. You need to play the song from a disc however while clicking through the presentation yourself. Space Shuttle Discovery (Powerpoint) -Powerpoint illustrating process of readying the shuttle for launch. Space Shuttle Enterprise (Powerpoint) -1 slide showing Enterprise, and how it got its name. Race to Space (PowerPoint) Presentation covers start of Space Race with launch of Sputnik, looks at the reason NASA was formed, and then focuses on Yuri Gagarin and Alan Shepard (the first Soviet, and the first American in space). Project Mercury and Project Gemini are introduced to the students, with the anticipation planted of the first Apollo landing on the moon.

Columbia (Powerpoint) -







				assigned. These questions will then be placed in front of their project board for other students to view and obtain answers for. Apollo Project Questions (Review / Culminating CLASS Activity) - Student culminating activity for Apollo Moon Project. Students must write the answers to each of the 5 questions posed by their fellow students in regards to their assigned moon mission. 15 project topics included in packet. Mercury, Gemini, Apollo, and Moon Hoax Theory (Test) - 61 question multiple choice test on all of the above topics.	
	International Space Programs and Commercial Spinoffs				
	Can countries with differing goals and financial interests work together to construct a functioning manned outpost in space?	A. Skylab - America's First Space Station B. Mir - The Soviet Outpost The International Space Station I. Countries involved II. Scientific Research	Recognize and explain the historical importance of former orbiting space posts Research products commercially available today and compare its current use to its original application in the space program Conduct a cost benefit analysis of the US Space program and relate data to the overall	Inside the Space Station (Video) - A worksheet to go along with the Discovery Channel DVD. Inside the Space Station (Notes) - Notes taken from the Discovery	ApolloProjectSummary.doc Moon Hoax Question Sheet.doc Roswellplus50.doc

	U.S. and	Onboard	federal budget	Channel DVD - a	
	countries	III. Commercial	Ť	handout for	
	around the	Spinoffs	Compose a letter to your	students to get	
	world be	IV. Cost to the	legislators in support or	after watching the	
	spending large	American	opposition to current space	movie.	
	amounts of	Taxpayer	policy		
	money on	The Future		International	
	space	The Future -	Formulate and defend personal	Space Station	
	programs when	What Does It	opinion about human space	(Lab) -	
	there are more		exploration should continue	Lab focuses on	
	pressing needs		and describe which planetary	who build the	
	here on earth?		body based on current	International	
			technological/political/economic	Space Station,	
			factors	the order in which	
				the components	
			What inspires someone to	were brought up	
			become an astronaut?	to space in the	
				space shuttle,	
				and when and	
				where to see the	
				space station for	
				yourself here on	
				earth.	
				International	
				Space Station	
				Lab (Quiz) -	
				10 question quiz	
				based on the	
				International	
				Space Station	
				Lab.	
				Technology We	
				Have Today,	
				Due to	
				A worksheet that	
				asks students to	
				research 5	
				products that	
				have become	
				commercially	
				available due to	
				NASA technology	
				utilized in the US	
				space program.	
				Spinoffs -	
				Commercialized	
				NASA	
				Technology -	
				A worksheet that	
				looks at the	
				definition of a	
				"Spinoff", and	
				what criteria need	
				to be met in order	
				for a product to	

qualify. Inside the Space Station (Video) -

A worksheet to go along with the Discovery Channel DVD.

Inside the Space

Station (Notes) -Notes taken from the Discovery Channel DVD - a handout for students to get after watching the movie.

International Space Station (Lab) -

Lab focuses on who build the International Space Station, the order in which the components were brought up to space in the space shuttle, and when and where to see the space station for yourself here on earth.

International Space Station Lab (Quiz) -10 question quiz based on the International Space Station Lab.

Technology We Have Today, Due to Advances by NASA -A worksheet that asks students to research 5 products that have become commercially available due to NASA technology utilized in the US

space program.

Spinoffs -Commercialized NASA Technology -A worksheet that looks at the definition of a "Spinoff", and what criteria need to be met in order for a product to qualify.

The International Space Station / Spinoffs / Cosmic Voyage (Quiz) -A quiz that covers each of the three outlined topics mentioned in the title.

International Space Station (Worksheet) -Worksheet focuses on building of space station.

The International Space Station / Spinoffs / Cosmic Voyage (Quiz) -A quiz that covers each of the three outlined topics mentioned in the title.

International Space Station (Worksheet) -Worksheet focuses on building of space station.

NASA Spinoffs



			travel for everyone	
Astronomical Hoaxes and Conspiracy Theories				
What will be the impact on worldwide religions if life other than our own is found exist in the universe? What if the conspiracy theorists are right and we really didn't land on the Moon?	A. Did We Land on the Moon? I. Falsified Photographs? II. Untimely Deaths? III. Radiation Sickness? IV. A Technological Impossibility? V. Capricom One - Fact or Fiction? VI. Other unexplained "Evidence". UFO's I. Sightings II. Recovered "Evidence" III. Weapons of War?	Evaluate historical accounts and conspiracy theories of space exploration and space invasion Distinguish between good science and junk science as related to the question of "Did we land on the Moon?" Explore various reports of UFO sightings for scientific validity or lack thereof Recognize how the field of parapsychology and the media have contributed to the increase of UFO sightings over the past decades	Did We Land on the Moon? A Debunking of the Moon Hoax Theory - 19 questions to ponder and think about after unit on Apollo Lunar missions has been completed. Computer activity that allows students to research "lunar landing hoaxes", and draw their own conclusions as to whether or not man really did land on the moon. Moon Sheet - Computer worksheet on lunar missions, their findings, and general moon facts. The theories regarding the origin of the moon are also touched on, as well as different lunar geological features discovered by the astronauts that visited there. Roswell Plus 50 - Popular Science (Article) - Magazine article which offers a more "earthly" explanation as to why UFO	

		sightings have	
		been prevalent	
		over the past 50	
		years or so.	
		Roswell Plus 50	
		- Question Sheet	
		-	
		37 question fill in	
		the blank sheet	
		that follows along	
		with article of the	
		same name.	

Last updated: 7/19/2011