smith	Topic/Objective CAPTER:	NAME:	
	Mars	DATE	
COMMUNITY COLLEGE	WHO is the god of WAR		
Essential Questi	on		
Cue: Review:	NOTE Taking AREA:		
Thoughts: Mair MARS	4 <sup>th</sup> planet from the Su miles) in the Solar Sy	un and the second smallest planet (~4000 /stem, after Mercury.	
	Named after the Rom	an god of war	
	Mars is the last terreation atmosphere (see last	Mars is the last terrestrial planet (inner planet) with a thin atmosphere (see last page)	
Referred to as the "Red Plata talcium powere soil the iron surface gives it a reddish at basaltic rock of dust can call		ed Planet" because of the fine-grained the iron oxide (rust) prevalent on its Idish appearance. This very fine grained can cause global Dust Storms.	
	The <i>rotational period</i> cycles of Mars are lik tilt (24°) that produce	(little longer than 24.6 hours) & seasonal we wise similar to those of Earth, as is the se the seasons.	
	Revolution: 687 days	Revolution: 687 days (about 2 earth years)	
Core is believed to be magnetic field.		e SOLID (Fe- Ni-S) due to the very weak	
	Surface features <ul> <li>Northern.Hemis</li> <li>basaltic lava file</li> <li>Southern Hemis</li> <li>Walking fr down hill.</li> </ul>	<ul> <li><b>Northern.Hemisphere is mostly smooth plans filed with basaltic lava fileds due to a large impact</b></li> <li>Southern Hemisphere is mountains region <ul> <li>Walking from the South to the North would be walking down hill.</li> </ul> </li> </ul>	
	NOTES CONTINUE C	)N OTHER SIDE	

smith	Topic/Objective CAPTER:		NAME:	
Mar WH		3	DATE	
		O is the god of WAR		
Cue: Review: Thoughts: Main	Idea	dea       Surface features         • impact craters like the moon impact (more in the Southern Hemisphere)         • Volcanoes (Olympus Mons)         • Valleys (Valles Marineris)         • Deserts / flood plains gray basaltic lava fields         • Polar ice caps (Dry ice, water ice)         • Tharsis Bulge is a vast volcanic plateau centered near the equator in the western hemisphere of Mars         • Evidence of Avalanches         • Skylight holes on the surface that leasds to underground lava tubes tunnels         • Barcons or gray basaltic horse-shaped sand dunes         • Or course evidence of water once excised.         Olympus Mons, the largest (340 miles diameter) shield volcano and second-highest known mountain (15 miles) in the Solar System. NO plate tectonics kept this volcano in one place.         Valles Marineris, one of the largest canyons in the Solar System.         Stretch from California to New York—more than 3,000 miles (4,800 kilometers).         This Martian canyon is 200 miles (320 kilometers) at its wides and 4.3 miles (7 kilometers) at its deepest.         That's about 10 times the size of Earth's Grand Canyon.		

smith <b>Topi</b>		c/Objective CAPTER:	NAME:	
	Mar	6	DATE	
		O is the god of WAR		
Essential Question	on		R	
Cue: Review:	Ideo	NOTE Taking AREA:		
Thoughts: Main Idea MARS		The smooth <i>Borealis basin</i> in the northern hemisphere covers 40% of the planet and may be a giant impact feature.		
		<ul> <li>Polar ice caps (Dry ice, water ice)</li> <li>Like Earth, Mars has ice capes that melt and grow with the season</li> </ul>		
		• In fact, ½ of the Atmosphere freezes out to coast the polar ice caps		
		<ul> <li>Evidence of Avalanches</li> <li>Along mountain sides we have found evidence of Avalanches and river channels and dried up river beds</li> </ul>		
		<ul> <li>Dust storms and Dust devils</li> <li>Mars experiences global dust storms</li> <li>Dust devils (small weak tornadoes) are very common on Mars</li> </ul>		
		<ul> <li>Skylight holes</li> <li>on the surface that leads to underground lava tubes tunnels</li> <li>Great place to hide from the harsh weather</li> </ul>		
		Barcons or gray basaltic horse-shaped sand dunes		
NOTES CONTINUE ON OTHER SIDE				

smith	Topic/Objective CHAPTER:	NAME:		
~		DATE		
0				
Cue: Review: Thoughts: Main	NOTE Taking AREA:			
	Tharsis Bulge			
	Vast volcanic plateau     western hemisphere	<i>i</i> centered near the equator in the of Mar <mark>s</mark> .		
	Largest volcanoes in the enormous shield volcanoes and the enormous shield volcanoes.	• Largest volcanoes in the Solar System, including the three enormous shield volcanoes Arsia Mons, Pavonis Mons, and Ascraeus Mons, which are collectively known as the <b>Tharsis</b> Montes.		
	Here are 4 of the larg	est volcanoes in the solar system.		
	Or course evidence of wate	er once excised		
SUMMARY:				

smith	Topic/C	Objective CAPTER:	NAME:	
	Mars		DATE	
COMMUNITY COLLEGE	WHO is the god of WAR			
Essential Question	on			
Cue: Review: Thoughts: Main	Idea	NOTE Taking AREA:		
		<ul> <li>ars has two moons, Phobos and Deimos Which are small and irregularly shaped</li> <li>Look like Baked potatoes</li> <li>These may be captured asteroids, similar to 5261 Eureka, a Mars trojan.</li> <li>PHOBOS has soil about 3feet thick, and is on a collision path with Mars.</li> <li>Phobos is the ONLY moon that Revolves more that it Rotates. Its Rotates is about 3times/day</li> </ul>		
		NOTES CONTINUE ON OTH	ER SIDE	

Mars       DATE         WHO is the god of WAR       NOTE Taking AREA:         Thoughts: Main Idea       NOTE Taking AREA:         The Mars rover       Curiosity         In 2013, NASA's Curiosity rover discovered that Mars's soil contains between 1.5% and 3% water by mass (albeit attached to other compounds and thus not freely accessible).         Until the first successful Mars flyby in 1965 by Mariner 4, many speculated about the presence of liquid water on the planet's surface.         This was based on observed periodic variations in light and dark patches, particularly in the polar latitudes, which appeared to be seas and continents;         Long, dark striations were interpreted by some as irrigation channels for liquid water.         These straight line features were later explained as optical illusions, though geological evidence gathered by unmanned missions suggests that Mars once had large-scale water coverage on its surface at some earlier stage of its life.         There are ongoing investigations assessing the past habitability potential of Mars, as well as the possibility of extant life.         In situ investigations have been performed by the Viking landers. Spirit and Opportunity rovers. Phoenix lander, and	smith <b>To</b>		c/Objective CAPTER:	NAME:
WHO is the god of WAR         Cue: Review: Thoughts: Main Idea         NOTE Taking AREA: The Mars rover Curiosity         In 2013, NASA's Curiosity rover discovered that Mars's soil contains between 1.5% and 39 water by mass (albeit attached to other compounds and thus not freely accessible).         Until the first successful Mars flyby in 1965 by Mariner 4, many speculated about the presence of liquid water on the planet's surface.         This was based on observed periodic variations in light and dark patches, particularly in the polar latitudes, which appeared to be seas and continents; Long, dark striations were interpreted by some as irrigation channels for liquid water. These straight line features were later explained as optical illusions, though geological evidence gathered by unmanned missions suggests that Mars once had large- scale water coverage on its surface at some earlier stage of its life.         There are ongoing investigations assessing the past habitability potential of Mars, as well as the possibility of extant life.         In situ investigations have been performed by the Viking landers. Spirit and Opportunity reviews. Phoneix lander, and	~	Mars		DATE
Cue: Review: Thoughts: Main Idea       NOTE Taking AREA: The Mars rover Curiosity         In 2013, NASA's Curiosity rover discovered that Mars's soil contains between 1.5% and 3% water by mass (albeit attached to other compounds and thus not freely accessible).         Until the first successful Mars flyby in 1965 by Mariner 4, many speculated about the presence of liquid water on the planet's surface.         This was based on observed periodic variations in light and dark patches, particularly in the polar latitudes, which appeared to be seas and continents; Long, dark striations were interpreted by some as irrigation channels for liquid water.         These straight line features were later explained as optical illusions, though geological evidence gathered by unmanned missions suggests that Mars once had large- scale water coverage on its surface at some earlier stage of its life.         There are ongoing investigations assessing the past habitability potential of Mars, as well as the possibility of extant life.         In situ investigations have been performed by the Viking landers. Spirit and Opportunity reviews. Phoepix lander, and	0	WH	O is the god of WAR	
The Mars rover         Curiosity         In 2013, NASA's Curiosity rover discovered that Mars's soil contains between 1.5% and 3% water by mass (albeit attached to other compounds and thus not freely accessible).         Until the first successful Mars flyby in 1965 by Mariner 4, many speculated about the presence of liquid water on the planet's surface.         This was based on observed periodic variations in light and dark patches, particularly in the polar latitudes, which appeared to be seas and continents;         Long, dark striations were interpreted by some as irrigation channels for liquid water.         These straight line features were later explained as optical illusions, though geological evidence gathered by unmanned missions suggests that Mars once had large-scale water coverage on its surface at some earlier stage of its life.         There are ongoing investigations assessing the past habitability potential of Mars, as well as the possibility of extant life.         In situ investigations have been performed by the Viking lander.	Cue: Review:	Idea	NOTE Taking AREA:	
Curiosity rover. Future astrobiology missions are planned, including the Mars 2020 and ExoMars rovers         SUMMARY:	SUMMARY:		Curiosity       In 2013, NASA's Curiosity rover discovered that Mars's soil contains between 1.5% and 3' water by mass (albeit attached to other compounds and thus not freely accessible).         Until the first successful Mars flyby in 1965 by Mariner 4, man speculated about the presence of liquid water on the planet's surface.         This was based on observed periodic variations in light and dark patches, particularly in the polar latitudes, which appeared to be seas and continents;         Long, dark striations were interpreted by some as irrigation channels for liquid water.         These straight line features were later explained as optical illusions, though geological evidence gathered b unmanned missions suggests that Mars once had large-scale water coverage on its surface at some earlier stag of its life.         There are ongoing investigations assessing the past habitability potential of Mars, as well as the possibility of extant life.         In situ investigations have been performed by the Viking landers, Spirit and Opportunity rovers, Phoenix lander, and Curiosity rover. Future astrobiology missions are planned, including the Mars 2020 and ExoMars rovers	