Lunar Geology

1. Find and list the names of 5 lunar mare on the Moon map.					
2.List the landing	sites for each Apollo moon landing				
Moon mission	Landing site				
Apollo 11					
Apollo 12					
Apollo 14					
Apollo 15					
Apollo 16					
Apollo 17					
3. Compare the ne different?	ear side with the far side of the Moon. How are they the same? How are they				
4. Why are all Apo	ollo landing sites on the near side of the Moon?				
5. Which rock, in the table below is commonly found in Earth's volcanoes?					

Moon Rocks

Rock	Composition	Description	Interesting information	Image
anorthosite	iron oxygen	coarse-grained igneous rock made largely of plagioclase feldspar (95%), with small amounts of pyroxene (4%), olivine, and iron oxides	discovered in the oldest Moon rocks	anorthosite found by Apollo 16 astronauts
armalcolite	magnesium iron titanium oxygen	dark	named for the Apollo 11 astronauts, Armstrong, Aldrin, and Collins, and first discovered on the Moon at Tranquility Base	
basalt	plagioclase feldspar and pyroxene	fine grained gray to black volcanic rock	found in lunar mare	basalt found by Apollo 15 astronauts
breccia	created from many kinds of rocks	sharp and angular fragments	rocks produced by the smashing, melting, and mixing of the lunar surface materials by large and small meteoric impacts	breccia found by Apollo 17 astronauts
ilmenite	iron titanium oxygen	iron-black or steel- gray mineral found in metamorphic and plutonic igneous rocks	weakly magnetic	

Rock	Composition	Description	Interesting information	Image
norite	pyroxene and plagioclase	dark and coarse grained	found in lunar highlands	
olivine	magnesium iron silicon oxygen	dark, greenish crystals	commonly found in basalt	
plagioclase feldspar		can be many different colors, but is often pink	an important component of igneous rocks	
pyroxene	silicon aluminum oxygen iron magnesium calcium	dark and dense	commonly found in basalt	
troctolite	olivine and plagioclase	depends on the amount of each	found in lunar highlands	troctolite found by Apollo 16 astronauts