

Earth	Moon	Mercury	Venus	Mars
	No air	No atmosphere	Carbon dioxide, Nitrogen, Argon, Sulfuric acid, tiny amounts of water/high temperatures enough to melt lead	95 percent carbon dioxide 3 percent nitrogen 2 percent argon tiny amount of water/low pressure Very thin atmosphere
		Analysis shows that large areas have been flooded by lava and then cratered	85 percent of Venus is covered by basaltic lowlands.	
			Ishtar Terra /highlands	
Earth is dominated by plate tectonics	Maria : smooth lunar lowlands. The highlands, in contrast, are composed of low-density rock containing minerals. For example, anorthosite—a light- colored rock that contributes to the highlands' bright color The breccias show how extensively the moon's surface has been shattered by	planet with a heavily cratered surface— much like that of Earth's moon	There is no sign of plate tectonics some horizontal motion in the crust as well as volcanism has helped form the highlands Make coronae Push up mountains such as Maxwell Create some folded mountains—like those around Ishtar Terra— by minor horizontal crust motions	large shield volcanoes on Mars provide evidence that plate tectonics has not been significant on that planet.

	meteorites		some horizontal motion in the crust as well as volcanism has helped form the highlands	
			volcanic features include the coronae.	
	Wherever you go on the moon, you will find craters/very old		The number of craters shows that the crust is not as ancient as the lunar Maria but not as young as Earth's active surface.	
			Venus may have had small oceans when it was young and much more Earthlike conditions than at present	polar caps appear to be composed of frozen water ice coated over by carbon dioxide (dry ice). the climate once permitted liquid water to flow over the surface.

				All the volcanoes on
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				Mars are shield volcanoes. These are very broad mountains with gentle slopes
		largest impact feature on Mercury is the Caloris Basin.		Olympus Mons Tharsis region. This is a highland region of volcanoes and lava flows. Near the Tharsis region is a great valley—Valles Marineris
One moon		No moons	No moons	Unlike Mercury or Venus, Mars has moons. Phobos Deimos