

Name _____ Date _____

Earth/Mars Comparisons Answer Key

	Earth	Mars
Land area (in millions)	148 square km	144 square km
Sea Surface Area (in millions)	363 square km	0
Equatorial Diameter	12,756 km	6,786 km
Distance from Sun (in millions)	147.1 - 152.1 km	206.6 - 249.2 km
Days in a Year	365.25	687
Axis Tilt	23.5 deg.	25 deg
Average Precipitation	varies	0
Surface Temperature Ranges	16°C, 61°F, 289°K	-125° to 37°C
Surface Materials	granite/basalt	silicon/iron
Atmosphere Gases		
Nitrogen	78%	2.7%
Oxygen	21%	0.13%
Carbon Dioxide	0.03%	95%
Water Vapor	up to 4%	0.03%
Physical Features	My State	Mars
Highest Elevation		Olympus Mons
		27 km
Lowest Elevation		Hellas Basin
		3 km below datum
Mountain Ranges		Tharsis Bulge
Lakes, Rivers		None
	Earth	Mars
Longest Canyon	Grand Canyon	Valles Marineris
(dimensions)	445.7 km long	4000 km long
	30 km wide	200 km wide
	1.6 km deep	7 km deep
Ice Caps (composition)	frozen water	solid carbon dioxide
Largest Volcano	Guallatiri	Olympus Mons
(height)	6.1 km	27 km
Largest Impact Crater	Sudbury, Canada	Lyot
(diameter)	140 km	

Note: In some cases, various credible sources provide slightly different data.