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While the era of major impacts is over, lunar meteorites still cause flashes and puffs of gas, vaporized rock, and dust that we can observe. The Moon itself has a fascinating history. It is now thought to have been formed after a Mars-sized object collided with Earth and stripped off a portion of its mass.

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Since 2006, NASA's Lunar Impact Monitoring Program has been routinely observing the moon for flashes caused by meteoroids striking the lunar surface.

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Lunar escape velocity averages 2.38 km/s (1.48 miles per second), only a few times the muzzle velocity of a rifle (0.7-1.0 km/s). Any rock on the lunar surface that is accelerated by the impact of a meteoroid to lunar escape velocity or greater will leave the Moon's gravitational influence.

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Lunar origin is established by comparing the mineralogy, the chemical composition, and the isotopic composition between meteorites and samples from the Moon collected by Apollo missions. Transfer to Earth. Most lunar meteorites are launched from the Moon by impacts making lunar craters of a few kilometers in diameter or less.

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The nearly 80 lunar meteorites are similar in mineralogy and composition to Apollo mission Moon rocks, but distinct enough to show that they have come from other parts of the Moon. Studies of lunar and Martian meteorites complement studies of Apollo Moon rocks and the robotic exploration of Mars. Meteorite Impacts in History

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