

*Is there water on the Moon?*

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Because there is no atmosphere, the Moon is either very hot or very cold.

No atmosphere is like not wearing clothes. There is no air to trap heat at night and keep the Moon warm, but also no air to absorb sunlight in the day and keep the Moon cool. These extreme temperatures mean there is no liquid water on the Moon.

However, there may be frozen water near the Moon's north and south poles. At the poles, there are places that are always in shadow where water could stay frozen.

The Moon's frozen water will be explored in a new mission led by Japan and India called LUPEX: the Lunar Polar Exploration Mission. If LUPEX finds water, maybe humans can use this to live on the Moon in the future!

Can you imagine drinking a glass of Moon water?