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## II IN THE SKY³

Peer through the haze on Saturn's cloaked moon, discover Mars from above, keep Earth's satellites powered, and put a spacraft into orbit around Jupiter. Just like NASA's science and engineering pros, you can do all that and more with pil

| HAZY HALO |
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| With its methane lakes and hazy atmosphere reminiscent of a primordial Earth, Saturn's moon Titan is an intriguing world - and one that scientists believe may harbor ingredients for life. Though spacecraft have studied Titan up close, and the Cassini mission sent a probe to the surface, much of the moon remains a mystery because a dense, $600-\mathrm{km}$ thick atmosphere masks its rocky surface. To study Titan in more detail, scientists have proposed developing a spacecraft to map the surface of this mysterious moon. <br> Given Titan's radius of $2,575 \mathrm{~km}$, what percentage of the moon's makeup by volume is atmospheric haze? <br> If scientists hope to create a global map of Titan, what is the surface area that a future spacecraft would need to map? <br> LEARN MORE ABOUT TITAN <br> solarsystem.nasa.gov/planets/titan |
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