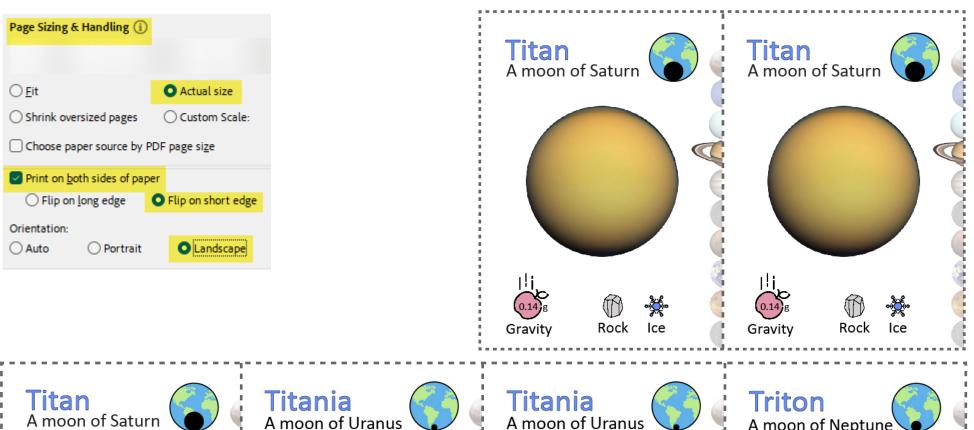
IMPORTANT: In the PDF Print box, be sure to select Actual Size, Print on both sides of paper, and Flip on short edge. See screenshot below.



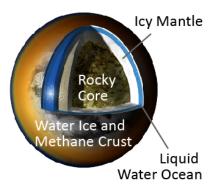


Water in Extreme Environments Planetary Cards 4 (page 1 of 4) Note: What appears to be duplicates are not; they are the fronts of more than 1 card.



SUBSURFACE

Titan is thought to have an extremely salty subsurface ocean of liquid water.



Model of the interior of Titan.



SURFACE

Titan's surface is a mix of water ice and hydrocarbon ice.

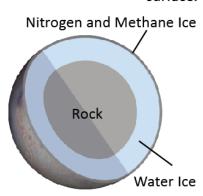


Rounded rocks and pebbles made of water ice, observed by the Huygens probe.



SUBSURFACE

Triton may have a large liquid or slushy ocean beneath its frozen surface.



Model of the interior of Triton.



SURFACE

Titania's surface is made of water ice and carbon dioxide ice.

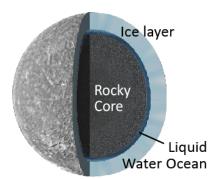


The Voyager 2 spacecraft captured images of Titania, showing craters as well as long rifts and canyons.



SUBSURFACE

There may be a layer of liquid water at the boundary of Titania's core and mantle.



Model of the interior of Titania.



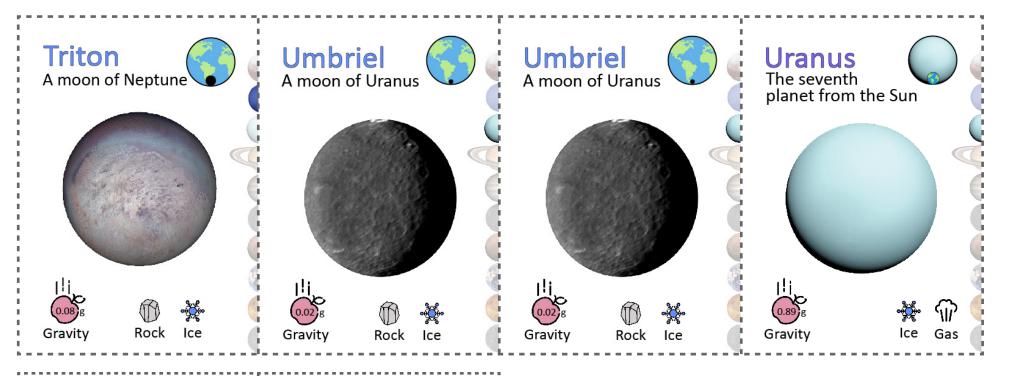
ATMOSPHERE

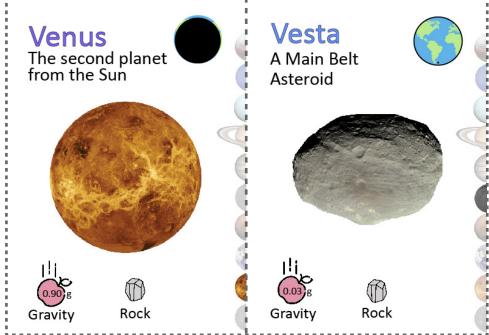
Titan's thick atmosphere contains nitrogen and methane, with very little water.



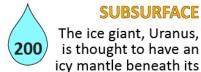
Titan's layered atmosphere in an image from the Cassini spacecraft.

Water in Extreme Environments Planetary Cards 4 (page 2 of 4) Note: What appears to be duplicates are not; they are the fronts of more than 1 card.

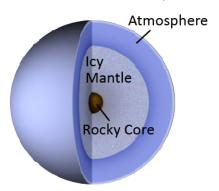




Water in Extreme Environments Planetary Cards 4 (page 3 of 4) Note: What appears to be duplicates are not; they are the fronts of more than 1 card.



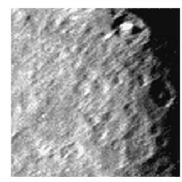
atmosphere.



Model of the interior of Uranus.

SURFACE

Umbriel's surface is made of water ice and carbon dioxide ice.

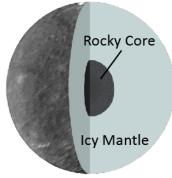


Umbriel's cratered surface imaged by the Voyager 2 spacecraft.

138

SUBSURFACE

Based on its density, Umbriel is made of mostly water ice.



Umbriel may have a small rocky core and an icy mantle, but much is still unknown.



SURFACE

Neptune's moon Triton has a mostly water ice crust.

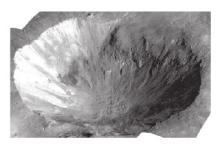


Dirty water ice on Triton, observed by Voyager 2.



SURFACE

Vesta almost certainly does not have water ice today.



Gullies in a crater on Vesta, imaged by the Dawn spacecraft, likely formed by landslides.



ATMOSPHERE

The atmosphere of Venus consists of 0.002% water vapor.



Venus' atmosphere observed from the Pioneer Venus orbiter.