

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.

Page Sizing & Handling ⓘ

☐ Fit ☒ Actual size

☐ Shrink oversized pages ☐ Custom Scale:

☐ Choose paper source by PDF page size

☒ Print on both sides of paper

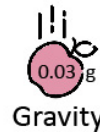
☐ Flip on long edge ☒ Flip on short edge

Orientation:

☐ Auto ☐ Portrait ☒ Landscape

Ariel

Moon of Uranus



Gravity



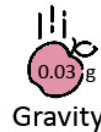
Rock



Ice

Ariel

Moon of Uranus



Gravity



Rock



Ice

Callisto

A moon of Jupiter



Gravity



Rock



Ice

Callisto

A moon of Jupiter



Gravity



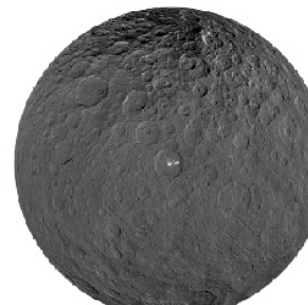
Rock



Ice

Ceres

Dwarf planet and
Main Belt Asteroid



Gravity



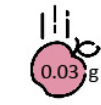
Rock



Ice

Charon

A moon of Pluto



Gravity



Rock



Ice

15

SURFACE

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

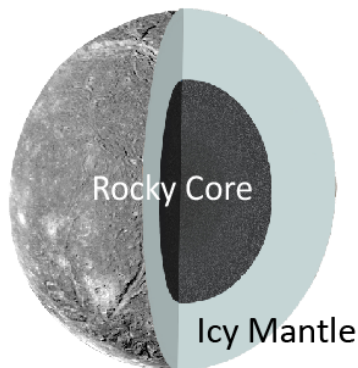


Canyons and craters on Ariel's surface imaged by the Voyager 2 spacecraft.

133

SUBSURFACE

Ariel is made of about half rock and half water ice.

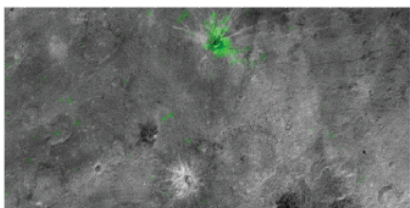


Model of Ariel's interior

137

SUBSURFACE

Charon has water ice in its subsurface that may once have been liquid.

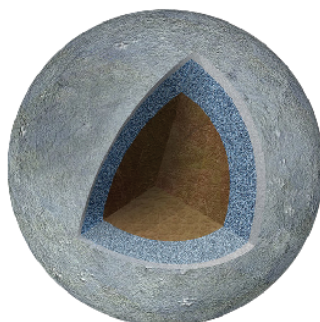


The New Horizons spacecraft imaged water ice in craters on Charon.

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SUBSURFACE

Ceres may contain a thin outer layer of dust and rock over a deeper layer of salty water ice.



Model of the interior of Ceres.

27

SURFACE

The surface of Callisto is made up of a mixture of water ice and rock.

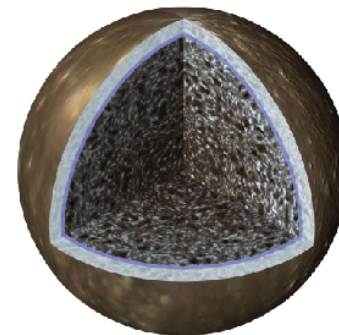


The surface of Callisto observed by the Galileo spacecraft.

244

SUBSURFACE

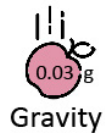
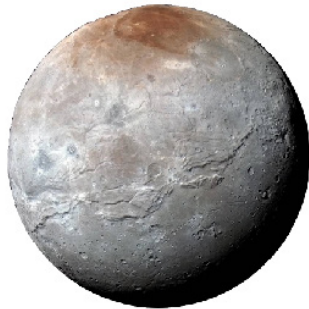
Callisto may have an underground ocean of salty liquid water.



Model of the interior of Callisto.

Charon

A moon of Pluto



Gravity



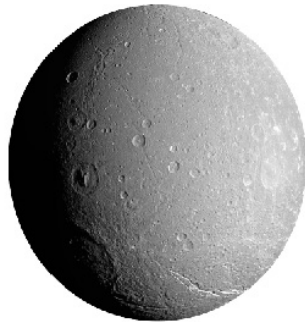
Rock



Ice

Dione

A moon of Saturn



Gravity



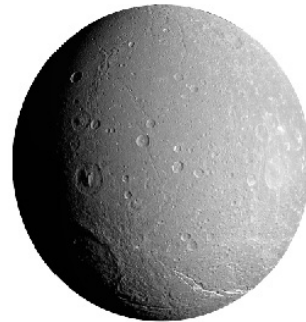
Rock



Ice

Dione

A moon of Saturn



Gravity



Rock



Ice

Earth

The third planet from the Sun



Gravity



Rock

Earth

The third planet from the Sun



Gravity



Rock

Earth

The third planet from the Sun



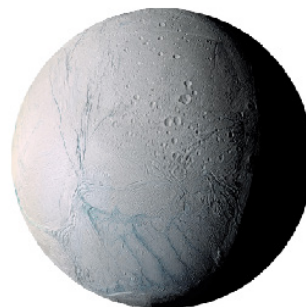
Gravity



Rock

Enceladus

A moon of Saturn



Gravity



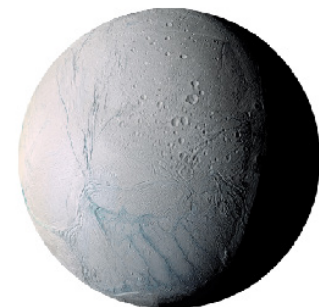
Rock



Ice

Enceladus

A moon of Saturn



Gravity



Rock



Ice



SUBSURFACE

On Earth, water is held underground as liquid water and ice.

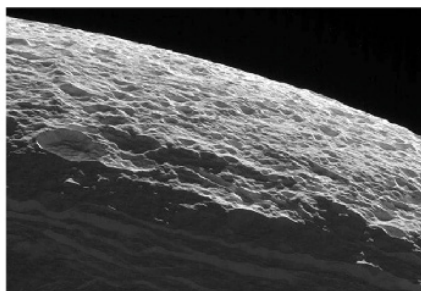


Groundwater exposed by digging a hole in the sand.



SURFACE

Dione has a mostly water ice surface.

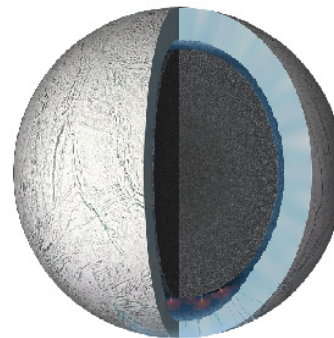


The surface of Dione observed by the Cassini spacecraft.



SUBSURFACE

Dione may contain a deep subsurface ocean of liquid water.

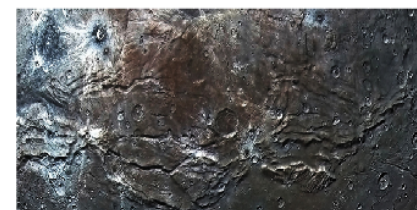


Model of the interior of Dione.



SURFACE

The surface of Charon is a mixture of ices, including water ice.

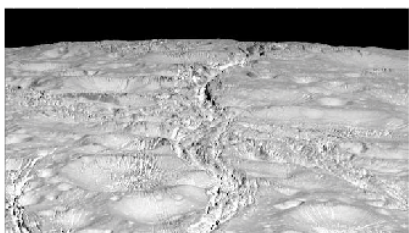


The New Horizons spacecraft discovered a long, deep canyon that encircles Charon.



SURFACE

The surface of Enceladus is covered in water ice.

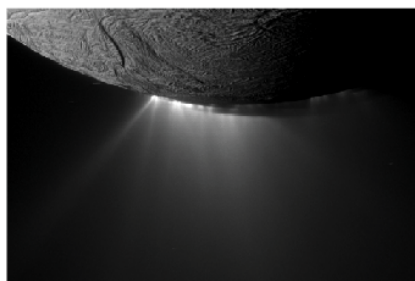


View of the north pole of Enceladus observed by the Cassini spacecraft.



SUBSURFACE

Enceladus may contain a subsurface ocean of liquid water.



Plumes of water vapor and ice erupting from fractures were detected by the Cassini spacecraft.



ATMOSPHERE

On average, Earth's atmosphere contains 0.4% water vapor.

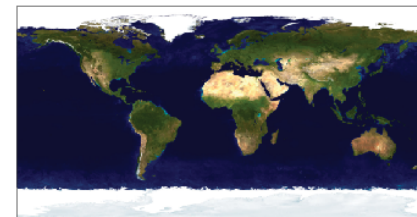


Earth's atmosphere observed from the International Space Station.



SURFACE

Surface water is present on Earth in the form of oceans, rivers, and glaciers.



True color mosaic of the Earth, based on images from an Earth-observing satellite.