Eris Our Solar System Pluto Neptune DWARF PLANET—SCATTERED DISK DWARF PLANET—KUIPER BELT Eris is covered in ices; it partly thaws Uranus when it nears the Sun every 557 years. GAS GIANT PLANET Valleys carved by nitrogen glaciers and tall mountains of ice border a windswept plain. Relative size and interesting facts for all known objects Neptune has very active weather systems, GAS GIANT PLANET including the strongest sustained winds in over 1500 km in diameter (and two notable others). the solar system: up to 2100 km/h. The axis of rotation of Uranus is tilted sideways, probably due to a collision with Positions not to scale; approximately true color. an Earth-sized object soon after it formed. LARGEST MOONS OF URANUS Charon, A MOON OF PLUTO, Saturn Titania: Enormous canyons: one goes nearly from equator to pole. and Pluto itself mutually orbit a point between the two. (Separation and orbits shown to scale.) Oberon: Its ancient surface is almost entirely covered with craters. GAS GIANT PLANET The rings of Saturn consist of innumerable small clumps of ice and dust orbiting the planet together. LARGEST MOONS OF SATURN Triton, A MOON OF NEPTUNE lapetus: A 13 km high ridge runs halfway around its equator. Orbits backward and has geysers of liquid nitrogen. Titan: Has rivers, lakes, and rain made of liquified natural gas. Rhea: Giant ice cliffs from tectonic activity streak its surface. Sun MAIN SEQUENCE STAR The Sun's hot plasma twists its powerful magnetic field into knots, causing sunspots and intense solar flares. LARGEST MOONS OF JUPITER lo: Over 400 active volcanoes due to Jupiter's gravity. Europa: Has an ocean of liquid water under its ice crust. Mercury Ganymede: So large that it creates its own magnetic field. Callisto: Stable surface and low radiation due to its wide orbit. TERRESTRIAL PLANET The Moon (OF EARTH) Mercury rotates so slowly that sunrise Probably formed when a Mars-sized to sunset lasts a full Mercury year object collided with the early Earth. (about 88 Earth days). Ceres Venus DWARF PLANET—ASTEROID BELT Ceres contains 1/3 of the mass of TERRESTRIAL PLANET the entire asteroid belt. Venus's thick CO₂ atmosphere and sulfuric acid clouds trap heat like a greenhouse: its Earth Mars Jupiter surface is hot enough to melt lead!

Orbital Sun | ASTEROID KUIPER
Distances Mercury Venus Earth Mars BELT Jupiter Saturn

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Earth. NASA/Sean Smith: Moon. NASA and The Hubble Heritage Team (STScI/AURA): Mars. NASA/JPL/U. of Arizona: Io. NASA/JPL/Space Science Inst.: Jupiter, Saturn, Titan, Rhea, Iapetus. NASA/JPL/DLR: Callisto, Europa. NASA/JPL/U. of Arizona: Io. NASA/JPL/U. of Arizona: Io. NASA/JPL/Space Science Inst.: Jupiter, Saturn, Titan, Rhea, Iapetus. NASA/JPL/U. of Arizona: Io. NASA/JPL/U. of Arizona: Io. NASA/JPL/Space Science Inst.: Jupiter, Saturn, Titan, Rhea, Iapetus. NASA/JPL/DLR: Callisto, Europa. NASA/JPL/U. of Arizona: Io. NASA/JPL/U. of Arizona: Io. NASA/JPL/Space Science Inst.: Jupiter, Saturn, Titan, Rhea, Iapetus. NASA/JPL/U. of Arizona: Io. NASA/JPL/U. of Arizona: Io. NASA/JPL/Space Science Inst.: Jupiter, Saturn, Titan, Rhea, Iapetus. NASA/JPL/U. of Arizona: Io. NASA/JPL/U. o

TERRESTRIAL PLANET

The ice caps of Mars grow a layer of dry ice

each winter. In spring it turns back into CO2 gas,

causing 400 km/h winds and global dust storms.

GAS GIANT PLANET

Jupiter's ammonia cloud bands include

the Great Red Spot, a vast vortex storm

that has persisted for hundreds of years.

TERRESTRIAL PLANET

On this tiny planet, alone in the

vastness of space, every person you've

ever loved has lived out their lives.