

Video Notes: 95 Worlds and Counting

Match the name of the moon with its facts.

1. _____
 - The coldest moon ever recorded, at almost -400° F, it approaches absolute zero, where all movement stops.
 - First ice volcanoes ever found – start deep underground, less dense liquid surfaces, covering the surface with melted ice, cold slushy lava
 - Powerful geysers made of boiling nitrogen, highest geysers (5 miles high) in the solar system
 - 1/12 of Earth's surface gravity, would be able to jump 12 times higher than on Earth
2. _____
 - Hottest moon in solar system
 - World of erupting lava, 300 active volcanoes, volcanic eruptions & poisonous gas
 - No breathable atmosphere
 - Largest volcano in solar system, generates more heat than all of the Earth's volcanoes combined, 300 miles of oozing lava, longest active lava flow in the solar system
 - produces 45,000 tons of lava a second, enough to pave all of the Earth's continents every year
 - mountains twice as high as mount Everest
 - away from volcanoes, more than 200 degrees below zero & full of snow
3. _____
 - Cliff 8 miles high, 8 times the depth of the grand canyon
4. _____
 - Potato-like rock the size of Houston
 - Surface gravity is less than 1/1000 that of Earth's – a human being would weigh about the size of a mouse
 - Layer of dust 3 feet deep, dark as charcoal, created by a bombardment of meteoroids
 - Sun rises & sets every 8 hours, 170 below zero at night,
 - Could throw a ball completely into orbit around Phobos, in 20 minutes
 - A gymnast could complete 3000 somersaults before hitting the ground 25 minutes later
5. _____
 - 1/6th the gravity as on Earth, easier to hop than to walk
 - No air, no water, rocks smell like spent gun-powder
 - Orange soil beneath the gray dust, due to volcanic beads, almost 4 billion years old
6. _____
 - Covered with miles of haze, a smoggy thick atmosphere of gases
 - Lakes made of liquid flammable natural gas, 300 degrees below zero, would freeze your skin right off
 - 1/7th the gravity of Earth, the air is so thick & gravity so low, humans could fly using only a small pair of wings 10 feet across
 - Rains fuel large drops, erodes land, creating valleys & hills
 - No oxygen, enough fuel to power the Earth for 50 million years
7. _____
 - Best possibility for life, perhaps easier for us to live here than on Mars
 - Cold, desolate, frozen, 250 degrees below zero
 - Perhaps through the ice is the first water ocean found off the planet earth, bigger than all of Earth's oceans combined
 - Radiation from Jupiter would make it unlivable, need lead shields
 - 300 foot ice ridges, cracks on surface may extend 1000 miles across
 - Perhaps there are microorganisms, or bacteria, below the surface & safe from radiation?

Moons

Jupiter's Europa
Jupiter's Io
Earth's Luna
Uranus's Miranda
Mar's Phobos
Saturn's Titan
Neptune's Triton