THE SOLAR SYSTEM

The Planets Francesca Costa



Cards for activity 2

Mercury

Position -

Distance from the sun - 57,910,000 km

Temperature – varies from -184°C to +427°C

Named after – Roman winged messenger and

escort of the dead

Other – fastest moving planet



Venus

Position – second closest to the sun

Distance from the sun –

Temperature – very hot: 457°C

Mass – 4.87 x 10²⁴ kg

Diameter – 12,100 km

Atmosphere – very thick, poisonous

Core – iron

Named after – Roman goddess of love

Other – has volcanoes



Earth

Position – third closest to the sun

Distance from the sun $\,-\,$ 150,000,000 km

Temperature -

Atmosphere – 78% nitrogen, 21% oxygen
Core – alloy of iron and nickel

Named after – the normal word for the ground and

soil

Other – the only place where we know that

life has evolved



Mars

Position – fourth closest to the sun

Distance from the sun - 228,000,000 km

Temperature – minimum -130°C, maximum 20°C

Mass -

Diameter – 6,800 km

Atmosphere – very thin, 95% carbon dioxide (CO₂)

Core – alloy of iron Named after – Roman god of war Other – has polar ice caps







Position – nearest to the sun

Distance from the sun - ____

Temperature – varies from -184°C to +427°C

Mass - 3.30 x 10²³ kg
Diameter - 4,900 km
Atmosphere - almost none
Core - partly liquid iron

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Distance from the sun – 108,200,000 km Temperature – very hot: 457°C

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Position – third closest to the sun

Distance from the sun - 150,000,000 km

Temperature - on average, 14°C

Mass - 5.98 x 10²⁴ kg

Diameter - 12,700 km

Atmosphere – _____

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Uranus

Position – seventh closest to the sun

Distance from the sun -2,870,000,000 km

Temperature -200°C Mass $-8.68 \times 10^{25} \text{ kg}$

Diameter – _____

Atmosphere – hydrogen, helium, and methane

Core – molten rock

Named after – Greek god of the sky Other – has 11 faint rings





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Other – has polar ice caps



Saturn

Atmosphere

Position – sixth closest to the sun Distance from the sun – 1,430,000,000 km

Temperature - -168°C Mass - 5.68 x 10²⁶ kg Diameter - 120,000 km

Core – liquid mettallic hydrogen around a

rocky core

Named after – Roman god of agriculture
Other – famous for its rings





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Jupiter

Position – fifth closest to the sun Distance from the sun – 778,000,000 km

Temperature - -150°C Mass - 1.90 x 10²⁷ kg Diameter - 140,000 km

Atmosphere – very stormy, 75% hydrogen, 25%

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Named after – Roman king of the gods

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Temperature – -200°C $-8.68 \times 10^{25} \text{ kg}$ Mass Diameter - 51,500 km

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Core - molten rock

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Neptune

Position – furthest planet from the sun

Distance from the sun -4,500,000,000 km

Temperature -215° C Mass $-1.02 \times 10^{26} \text{ kg}$ Diameter -49,500 km

Atmosphere – hydrogen and helium

Core – rocky

Named after –

Other – thirteen moons have been





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Uranus

Position – seventh closest to the sun

Distance from the sun -2,870,000,000 km

Temperature -200° C

Mass -8.68×10^{25} kg

Diameter -51,500 km

Atmosphere -

Core – molten rock

Named after – Greek god of the sky Other – has 11 faint rings







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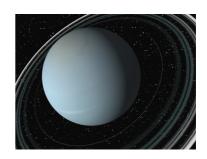
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Position – second closest to the sun

Distance from the sun - 108,200,000 km

Temperature

Mass $- 4.87 \times 10^{24} \text{ kg}$ Diameter - 12,100 km

Atmosphere – very thick, poisonous

Core – iron

Named after – Roman goddess of love

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Earth

Position – third closest to the sun Distance from the sun – 150,000,000 km Temperature – on average, 14°C Mass – $5.98 \times 10^{24} \text{ kg}$

Diameter -

Atmosphere – 78% nitrogen, 21% oxygen Core – alloy of iron and nickel

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Mass $- 6.42 \times 10^{23} \text{ kg}$ Diameter - 6,800 km

Atmosphere – very thin, 95% carbon dioxide (CO₂)

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Neptune

Position – furthest planet from the sun

Distance from the sun $\,$ – $\,$ 4,500,000,000 km

Temperature -215° C Mass $-1.02 \times 10^{26} \text{ kg}$ Diameter -49,500 km

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Position – seventh closest to the sun

Distance from the sun - 2,870,000,000 km

Temperature -200° C Mass -8.68×10^{25} kg Diameter -51,500 km

Atmosphere – hydrogen, helium, and methane

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Named after – Greek god of the sky Other – has 11 faint rings



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Temperature - -168°C

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