Connections Knowledge Organiser

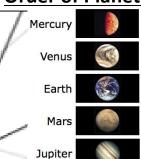
Key Definitions

	Term	Definition
1	Star	A burning mass of gas that makes heat and light energy (E.g. the sun).
2	Planet	An astronomical object that orbits a star and does not emit its own light. It can be terrestrial (dense and rocky) or Jovian (gas giant).
3	Gravity	The force that attracts an object towards a larger object.
4	Solar System	A star with objects (such as planets) revolving around it.
5	Light-year	The distance light travels in a year (≈9.46 trillion km).
6	Galaxy	An extremely large group of stars and planets that extends over many billions of light-years, held together by gravity (E.g. Milky Way and Andromeda).
7	Universe	All of space and everything in it (including stars, planets and galaxies).
8	Satellite	An object either natural (E.g. a moon) or man-made, that orbits around a planet.
9	Orbit	A curved path of a planet, satellite or spacecraft around an object such as the sun due to the attraction of gravity.
10	Vacuum	A space with no air.
11	Asteroid	Irregularly shaped rock that orbits the sun, mostly occurring in the asteroid belt.
12	Meteor	A mass of rock that burns after entering the Earth's atmosphere (meteorite when the rock has cooled on Earth)
13	Comet	A mass of ice and dust that has a long, luminous tail of gas.
14	NASA	The National Aeronautics and Space Administration – a US agency responsible for the exploration and study of space.
15	Astronomy	The branch of science that deals with space and the physical universe as a whole.
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Moon Facts

		No. of moons	Length of orbit (Earth days)
1	Mercury	0	88
2	Venus	0	225
3	Earth	1	365.25
4	Mars	2	687
5	Jupiter	79	4 380
9	Saturn	62	10 585
7	Uranus	27	30 660
8	Neptune	14	60 225

Order of Planets



Saturn

Neptune





Space Exploration

numans in space			
The first animal in space was a dog aboard Sputnik 2 in 1957.			
First human in space 1961, aboard the Vostok 1.			
First person on the moon in 1969 aboard Apollo 11.			

International Space Station (ISS) Collaboration launched in 1998.

1 Laika

2 Yuri Gagarin

1 Sputnik 1

3 Galileo

2 Mars Landers

Hubble Telescope

Neil Armstrong

Join System Wissions			
	The first man-made satellite to orbit the Earth, launched by the Soviet Union in 1957.		
s and Rovers	First launched in 1975 with plans to launch again in 2020 as part of the mission to get man on mars by 2030.		
	Launched 1989 exploring Jupiter and its moons.		

Launched 1990 - captured images of both our own and distant galaxies.

Cassini Launched 1997 - exploring Saturn and its rings.

Ideas for Home

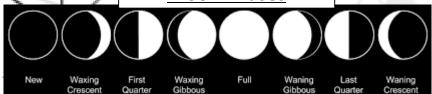
Things to try at home to support learning:

- Research some information about a specific planet
- Plan a space holiday with Virgin Galactic
- Keep a moon diary
- Write a prediction about what might be found on Europa
- Draw a timeline of key Space events
- Create a sundial to study shadow changes

Key Facts

- There are 24 hours in a day
- There are 365 ¼ days in a year
- The moon takes 28 days to orbit the Earth

Moon Phases



Moon Phase Names

Gibbous

Crescent

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PRIDE