



The cards below have some questions that scientists could ask about the Solar System and space.

- Some of these questions could be answered now although in some cases scientists would first have to gather information before giving an answer. No new technology would need to be invented.
- Some questions cannot be answered completely now but scientists may be able to answer them at some time in the future (perhaps 50 or 100 years from now).
- Some of the questions may never be answered completely.
- Some questions are not scientific questions.

Cut out the cards and sort them into four piles according to whether you think the questions can be answered now, in the future, never completely answered or if they are not questions that science can answer. If you can, think up some questions of your own and add them to the correct piles.

I can...

- identify scientific questions
- identify some questions that science cannot yet answer.

A What gases are in the atmosphere of Jupiter?	B Are there mountains on Venus under the clouds?
C Is there life under the ice on Europa? (Europa is one of the moons of Jupiter.)	D Are other stars the same as our Sun?
E Should we send people to live on the Moon?	F What gases are in the atmospheres of planets orbiting other stars?
G How big are the planets that orbit other stars?	H Should we name a star after the Prime Minister?
I Do planets that orbit other stars have mountains on them?	J Is there any life on planets orbiting other stars?
K Is there any life on Mars?	L Has there ever been any life on Mars?
M Is our Moon more beautiful than Ganymede (one of the moons of Jupiter)?	N Are there moons orbiting planets in other solar systems?
O What does the surface of Pluto look like?	P Was there ever life on Venus?
Q How did life on Earth get started?	R Is the 'Big Dipper' a better name for the constellation we call 'The Plough'?
S Why does Venus spin in the opposite direction to Earth?	T What caused the geological features we can see on Mars?