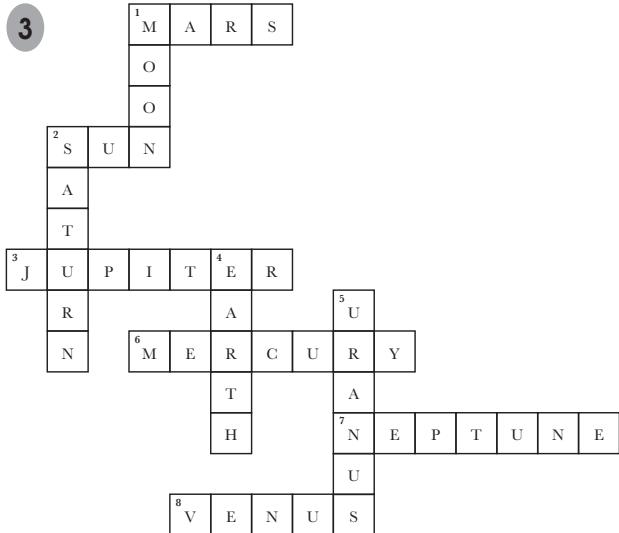


- 1 Matter expanding
 2 **4** planet **2** galaxy
3 solar system **1** universe
 3 the Moon, the orbit around the Earth
 4 black hole
 5 The Goldilocks Zone
 6 It is getting bigger more quickly than we thought.

- 2 1 a new telescope
 2 a space probe
 3 the Law of Gravitation
 4 the way that things move
 5 a measure for force
 6 special theory of relativity
 7 how time-travel could work
 8 the further away a galaxy is from the Solar System, the faster it travels
 9 a space telescope



4a *Model answers:*

Diagram	Description
1 conventional time travel 2 potential time travel 3 the space-time continuum	This is how wormholes could allow you to travel through space faster.
4 Earth 5 Moon 6 gravity 7 the tide	This is how the Moon's force of gravity on the Earth makes tides in the oceans.
8 hot spot 9 ocean 10 heat 11 mantle currents	This shows how volcanoes can be caused.
12 dark energy 13 atoms 14 dark matter	This shows what the Universe is made of.

4b *Reader's own answer.*

6 *Reader's own answer.*

- 5 1 astronomer; Copernicus
 2 distance; 149.6 million kilometres
 3 explodes; a supernova
 4 space probe; Titan
 5 weight; Jupiter
 6 atmosphere; more trees

7 *Reader's own answer.*