

Name:

1 Put the planets in the correct order 1-8 (1 = nearest the Sun).

- | | | | |
|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|
| a <input type="checkbox"/> Earth | b <input type="checkbox"/> Jupiter | c <input type="checkbox"/> Mars | d <input type="checkbox"/> Mercury |
| e <input type="checkbox"/> Neptune | f <input type="checkbox"/> Saturn | g <input type="checkbox"/> Uranus | h <input type="checkbox"/> Venus |

...../8

2 Tick the six true sentences.

- | | |
|---|--------------------------|
| 1 The Earth's solar system has nine planets. | <input type="checkbox"/> |
| 2 These planets orbit the Sun. | <input type="checkbox"/> |
| 3 All of these planets have moons. | <input type="checkbox"/> |
| 4 Extrasolar planets orbit different suns. | <input type="checkbox"/> |
| 5 Extrasolar planets are very far from the Earth. | <input type="checkbox"/> |
| 6 People cannot visit these extrasolar planets on machines. | <input type="checkbox"/> |
| 7 A satellite is a star. | <input type="checkbox"/> |
| 8 Sometimes there are no people on a satellite. | <input type="checkbox"/> |
| 9 Satellites orbit a planet, a star or a moon. | <input type="checkbox"/> |

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3 Answer the questions.

1 Which country sent the first satellite into space?

.....

2 Where did the first probes land in space?

.....

3 What is Hubble?

.....

4 What is very strong in black holes?

.....

5 How do we talk about time in space?

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4 Complete the text from Chapter Two. Choose words from the box.

computer Earth astronaut spaceship body sky

Four years after the first spaceship, Russia sent the first ¹..... into space.
 In 1961, Yuri Gagarin went into space on his ²....., Vostok 1. Vostok 1 went
 around the Earth for 108 minutes. A ³..... flew it from Earth. This was because
 astronauts on Earth were not happy about Gagarin's ⁴..... in space with no gravity.
 Vostok 1 flew very fast – at 27,400 kilometres per hour – and it flew 327 kilometres high in the
⁵..... . Yuri Gagarin did not land back on ⁶..... inside Vostok 1.
 He came out of the spaceship with a parachute before landing.

...../6

5 Complete the sentences. Choose the correct dates from the box.

1969 1971 1973 1979 2000

- 1 Russia built the first space station in
- 2 Skylab 1, America's first space station, took off into space in
- 3 Skylab 1 came back into the Earth's atmosphere in
- 4 The International Space Station went into space in
- 5 Two men first landed on the Moon in

...../5

6 Circle the correct words.

- 1 People **saw** / **did not see** UFOs in the sky.
- 2 We **know** / **do not know** if there is life on other planets.
- 3 There **are** / **are not** seas and rivers everywhere on Earth.
- 4 Living things **need** / **do not need** water.

...../4

7 Complete the sentences. Use one, two or three words.

- 1 Astronomers are planets with the same weather as Earth.
- 2 Venus because it is too near the Sun.
- 3 Mars is too cold because it is Sun.

- 4 The atmosphere on Earth summer and winter.
- 5 More things grow in hot summers cold winters.
- 6 Astronomers are atmosphere on some extrasolar planets with a special new telescope.
- 7 They want to find planets with as the Earth.
- 8 Maybe things can on these extrasolar planets too.

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8 Write *Jupiter, Mars or Saturn* next to the facts.

- 1 A lot of moons orbit it.
- 2 An ESA orbiter found lots of water under the ground there.
- 3 In the past, it was warmer, and there was water on the ground.
- 4 It has a lot of hot air, and ice and rocks orbit it.
- 5 It is the biggest planet in the solar system.
- 6 It is the second biggest planet in the solar system.
- 7 It looks red because of its rocks.
- 8 Its moons look cold and dead, but they are not.
- 9 Seventy-nine moons orbit it.

...../9

9 Complete the text. Choose one word (a, b or c) for each gap.

In 2009, the COROT telescope ¹..... the extrasolar planet COROT-7b. The planet had rocks on it. It is very small. It is about 500 light years away ²..... the Earth. It orbits the star COROT-7 in about a day – the same time the Earth ³..... to orbit the Sun. COROT-7b’s sun is colder ⁴..... our sun, but COROT-7b is very hot (2000 °C). It is too hot for life on COROT- 7b, but maybe there are ⁵..... extrasolar planets out there. A planet ⁶..... be too near or too far from its sun for life.

- | | | |
|---------------|----------|--------------|
| 1 a finds | b found | c is finding |
| 2 a from | b of | c to |
| 3 a is taking | b takes | c took |
| 4 a as | b more | c than |
| 5 a cold | b colder | c coldest |
| 6 a would | b must | c must not |

...../6

10 Match the two parts of the sentences. Draw lines between them.

- | | |
|--|--|
| 1 Understanding life on Earth | a and they live in cold, wet places. |
| 2 Very small things live | b but it can be stronger on other planets. |
| 3 They live in hot, dry places, | c everywhere on Earth. |
| 4 They live in very cold water and | d may help astronomers find life in space. |
| 5 Astronomers on Earth | e in very hot water. |
| 6 The Sun can be very strong on Earth, | f has lots of gas. |
| 7 The atmosphere on some planets | g there is not as much gravity in space. |
| 8 Gravity is very strong on Earth, but | h are studying different parts of space. |

...../8

11 Put the information about NASA and ESA in the correct column.

send satellites into space explore other planets with machines
 take astronauts far into space take astronauts to the ISS

NASA and ESA can	NASA and ESA cannot

...../4

12 Complete the text. Choose the correct verbs from the box.

look be help be able to study fly learn tell

TESS will ¹..... much brighter stars than Kepler. It will also ²..... at a part of the sky 400 times bigger. TESS will ³..... astronomers learn about many new things in space. NASA and the ESA are going to send the James Webb Space Telescope into space in 2020. Webb will ⁴..... far away from the Earth. It will ⁵..... the biggest telescope in space, and it will ⁶..... answer many of our questions. It will ⁷..... more about how space started, and where stars and planets come from. It will ⁸..... us how fast space is growing.

...../8

13 Answer the questions. Use the numbers in the box.

six minutes six people ten minutes 100 kilometres \$35,000 \$250,000

- 1 How high will Blue Origin fly in space?
- 2 How long will Blue Origin fly people for?
- 3 How many people is Virgin Galactic planning to take into space?
- 4 How long will people be in space with no gravity on Virgin Galactic?
- 5 How much will it cost to fly into space with Virgin Galactic?
- 6 How much will tourists pay for one night on the ISS?

...../6

14 Circle the correct words.

NASA ¹ **must** / **must not** build the right spaceship. It ² **can** / **cannot** be too heavy, or it ³ **will** / **will not** take off from Earth. It ⁴ **must** / **must not** also be big and strong because it ⁵ **does not have to** / **has to** carry the astronauts and everything they ⁶ **will** / **will not** need. Then NASA ⁷ **must** / **must not** find the right astronauts. The astronauts ⁸ **will** / **will not** be away from home for many years, and each one ⁹ **will** / **will not** have to do many jobs on the spaceship. In space, the astronauts ¹⁰ **would** / **would not** be able to get any help from Earth because it is too far away. They ¹¹ **would** / **would not** be able to send a message to Earth from Mars, but Earth ¹² **would** / **would not** only get the message after twenty minutes.

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15 Tick the eight problems astronauts can have in space.

- | | | | | |
|---------------|--------------------------|---|--------------------------|--------------------------|
| the Sun | <input type="checkbox"/> | no gravity | <input type="checkbox"/> | |
| no money | <input type="checkbox"/> | staying in a small place for many months or years | | <input type="checkbox"/> |
| not going out | <input type="checkbox"/> | not sleeping very well | <input type="checkbox"/> | feeling hungry |
| feeling sad | <input type="checkbox"/> | feeling tired | <input type="checkbox"/> | getting angry |

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16 NASA would like to send astronauts to Mars in 2036. Which two problems are scientists planning for on Mars?

- a
- b

...../2

17 Complete the text. Choose the correct words (a, b, c or d).

¹ **a** Get astronauts to Mars or to other planets will cost a lot of money. Who ² **a** pays
b Gets **b** is going
c Getting to pay
d Got **c** is paying
d paid

for it? Do we ³ **a** can visit Mars, and can we really use this money for travelling in space?
b have to
c must
d would

There are a lot of problems on Earth. People ⁴ **a** need schools, hospitals and houses,
b needs
c are needing
d needed

and these cost a lot of money, too. But maybe we ⁵ **a** can't learn some new and important lessons.
b did
c are
d can

...../5

18 What do these letters mean? Tick the correct definition.

- 1 ESA **a** European School Agency
- b** European Space Agency
- 2 ISS **a** International Space Station
- b** Internet Space Station
- 3 JUICE **a** Jupiter Ice and Rock Explorer
- b** Jupiter Icy Moons Explorer
- 4 JWST **a** James Webb Space Telescope
- b** James Webb Space Television
- 5 NASA **a** National Aeronautics and Space Administration
- b** New Aeronautics and Space Administration
- 6 TESS **a** Transiting Exoplanet Survey Satellite
- b** Travelling Exoplanet Survey Satellite
- 7 UFO **a** Unidentified Fast Objects
- b** Unidentified Flying Objects

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19 Read the definitions. Choose the correct words or phrases from the box.

black hole telescope gravity orbit space station take off

- 1 It pulls things towards other things. It is very strong on Earth.
- 2 To move in a circle in space.
- 3 To leave the ground and begin to fly.
- 4 It makes things look bigger or nearer.
- 5 A building in space. Astronauts can live there.
- 6 A place in space. If something goes into it, it cannot come out of it again.

...../6

20 Circle the correct words.

- 1 Russia sent the first **alien** / **astronaut** into space in 1961
- 2 The **Kepler** telescope looks at **groups of moons** / **stars in space**.
- 3 NASA's **probes** / **satellites** Spirit and Opportunity landed on Mars in 2004.
- 4 Living things need **air** / **atmosphere** to live.
- 5 Some of the water on Mars is now **ice** / **light** on the high ground.
- 6 Astronomers are also listening for radio **signs** / **signals** from other planets.
- 7 **Extrasolar planets** / **Planets** are not inside the solar system.

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Total...../130