

Name _____

Date _____

Year 3 · Science · Mixing materials · 2.5 Separating materials from rocks

Fuels and Our Planet

Oil and natural gas are found deep underground. We burn them as fuels, and that changes our planet.



1 Fill in the gaps. Use the words in the box.

4 marks

fuels · oil · natural gas · carbon dioxide

Materials that we burn are called _____.

_____ is a liquid found underground.

_____ is a gas found underground.

When fuels burn, a gas called _____ is made.

2 Draw a ring around the **three** things made from oil.

2 marks

petrol

wooden chair

plastic bottle

cotton shirt

diesel

glass jar

3 Sort these into things we use once (disposable) and things we use again and again (reusable).

3 marks

plastic straw · metal water bottle · paper cup ·
cloth shopping bag · plastic takeaway spoon · lunch box

Disposable	Reusable

4

Tick (✓) **true** or **false** for each sentence.

4 marks

	true	false
Natural gas can be used for cooking.	☐	☐
Petrol is made from oil.	☐	☐
Burning fuels makes oxygen.	☐	☐
Plastic rots away in a few days.	☐	☐

5

Why can burning a lot of fuel cause a problem for our planet?

2 marks

6

Name **three** materials made from oil.

2 marks

7

Most plastic lasts a very long time. Why is that a problem for things like straws that we use only once?

2 marks

8

Design a reusable object to use instead of a plastic thing you use only once. Draw it, label its material and say why it is better.

3 marks



9

Write **one** thing your family could do to burn less fuel.

1 mark

10

Cooking gas has no smell of its own, so the gas company adds a strong smell to it. Why?

2 marks

11

Some plastic, called bioplastic, is made from plants instead of oil. Why might this be better for our planet?

2 marks

Did you know?

Since June 2019, plastic carrier bags have been banned in Tanzania. Shops use cloth, paper and woven bags instead.

How did I do?

Easy



Okay



Tricky

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Fuels and Our Planet: answers

Answers and marks for every question.

- 1 fuels; oil; natural gas; carbon dioxide 4
- 2 petrol, plastic bottle, diesel (2 marks for all three; 1 for two) 2
- 3 Disposable: straw, paper cup, takeaway spoon. Reusable: metal bottle, cloth bag, lunch box. (3 marks all six; 2 for four or five; 1 for two or three) 3
- 4 true, true, false, false 4
- 5 It makes carbon dioxide gas (1); too much carbon dioxide in the air makes the Earth get warmer (global warming) (1). 2
- 6 Any three: petrol, diesel, plastic, kerosene/paraffin, candle wax, some paints (2 marks for three; 1 mark for two). 2
- 7 We use them for a few minutes but they stay as rubbish for many years (1), polluting beaches and seas and harming animals (1). 2
- 8 A sensible reusable object (1), a suitable material labelled (1), a reason it is better, e.g. it lasts and can be used many times (1). 3
- 9 e.g. walk or cycle short distances, share rides, use a dala-dala or bus, switch off lights, cook with a lid on the pot. 1
- 10 So people can smell it if the gas leaks (1) and get out or turn it off before it causes a fire or harms them (1). 2
- 11 Any two: plants can be grown again but oil runs out; less oil is dug up and burned; some bioplastics rot away instead of lasting for years. (1 mark each) 2