



Highwood Primary School *Promoting Resilience - Achieving Potential*

Year 4 Autumn 1 2026

Here is an outline of the home learning activities for the Year 4 children, this half term. Your child should choose to complete one of these activities each week. **Please sign the Home Learning grid** to show that the activity has been completed and **send it in every Monday** You may wish to include photographs of larger pieces of work and practical activities.

Compulsory weekly home learning

Choose 1 English/Reading/Maths/Spelling and Handwriting activity to complete each week.

These are all linked to current or prior learning to further consolidate understanding.

Please complete each activity on the sheet provided, or in your home learning book.

To help promote PE at home please use this [Active Families](#) link, or search GetSet4PE online with your child. This area is open for all to enjoy. Please choose 1 of the activities to complete at home.

If you attend daily phonics lessons – practise reading red words and learning speed sounds using the QR codes sent home previously.

Daily home learning

- Daily reading and sharing books. Please record **any reading** in your reading record.
- Spelling Shed online.
- Times Tables Rock Stars online- Multiplication tables.

P.S.H.E

Create a poster to explain how to be a good school citizen.

Think about our golden rules and how we can apply them.

- Do be gentle.
- Do be kind.
- Do listen to others.
- Do be honest.
- Do work hard.
- Do look after property.

Parent/carers signature: _____

Geography

Create a diorama of the ocean. It could include the different layers, which creatures can be found or plastic pollution.



Parent/carers signature: _____



Art

Create a landscape drawing of your favourite view in the style of David Hockney. It could be out of your window, your favourite park or place to visit. Think about what you can see. How can you use colour and pattern to show the different things you can see.



Parent/carers signature: _____

Free Choice Activity

Choose to do a task that is related to something that you have been learning about in school.

Write a short description or draw a picture of what you did and why.

Parent /carers signature: _____



Ocean Depths

Boiling Vents

4

As you descend deeper into the ocean, not only does the pressure increase dramatically but the temperature plummets. At the deepest parts of the ocean, the temperature can be as low as a degree above freezing. However, there are places in the darkness where temperatures soar to nearly 400°C!

Scientists didn't realise that these hot spots existed until the 1970s when a few noticed temperature spikes on their equipment. When they investigated further, they found enormous vents that looked like mini mountains. Each one was spewing out scalding gases and boiling water. Even though the temperatures were so hot and the water toxic, they still found creatures living there.

These creatures are called extremophiles because they live in such extreme conditions. One species of worm was found living with its head almost inside the vents. The temperature was 78°C warmer at its head than at its tail!

Scientists now know that bacteria inside these hydrothermal vents convert the chemicals into energy that other creatures then consume. It's just more evidence that life exists in some very extreme places!

1 What does the prefix hydro mean in the word hydrothermal?

Tick one.

- ☐ warm
- ☐ water
- ☐ under
- ☐ extreme

2 Write an appropriate adjective in each space.

a _____ worm

an _____ creature

3 Use the same root word but replace the suffix with a different suffix to create a new word.

suffixed word	new suffixed word
exists	
equipment	
called	

1 Insert the missing comma.

Until the 1970s scientists didn't realise that these hot spots existed.

2 Write the uncontracted form in both sentences below.

Scientists didn't realise that these hot spots existed until the 1970s.

It's just more evidence that life exists in some very extreme places!

3 Which sentence uses the plural possessive apostrophe correctly?

- ☐ The vents temperature's were hot and toxic.
- ☐ The vent's temperatures were hot and toxic.
- ☐ The vents' temperatures were hot and toxic.
- ☐ The vents temperatures' were hot and toxic.

Ocean Depths

Colourless World

4

Sunlight is a mixture of every colour that we can see. When they combine, they form the white light that we see on a sunny day. When sunlight passes through water, different colours are filtered out depending on how deep the water is.

Red light is filtered out quickest. It begins to disappear in water as shallow as 5 feet and is completely filtered out by 15 feet. That means you can see a difference at the bottom of a deep swimming pool. Orange is next to go, at about 25 feet, then yellow by 45 feet. Green will disappear by 75 feet.

All of this means that animals living in the deepest ocean have some very unique characteristics. Because red light never reaches the depths, anything that is red-coloured will be practically invisible because no light will reflect from it. This can be a great benefit for small fish and invertebrates.

This also means that there aren't many blue or green fish in the deeper parts of the ocean. Blue light travels the deepest, and so any blue fish would stick out like a sore thumb, especially when all of their red and orange counterparts were almost invisible.

Explain

Why might the writer have explained how sunlight is made up at the beginning of the text?

Summarise

Why are there lots of red fish in the deepest parts of the ocean?

Vocabulary

What does "combine" mean in this context?

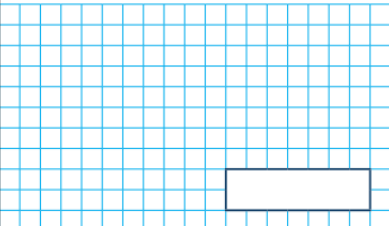
Which word tells you that the characteristics of the deepest creatures are special to them?

Retrieve

Which colour is the second to disappear?

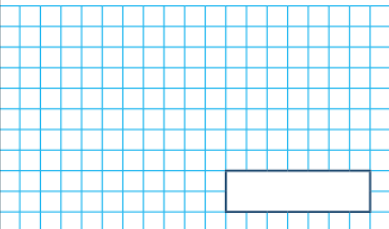
Which colour is the last to be filtered out?

1 $248 + 100 =$



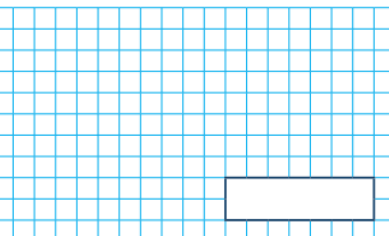
1 mark

2 10 less than 729 =



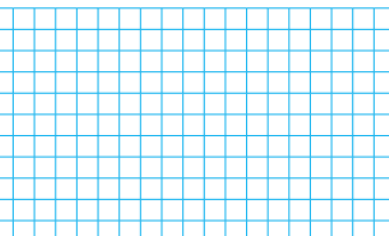
1 mark

7 $3 \times 5 \times 2 =$



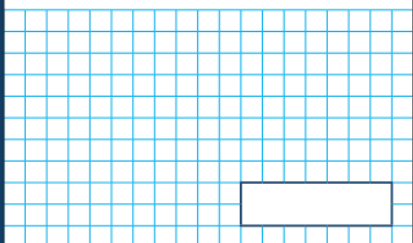
1 mark

8 $9 \div \text{ } = 9$



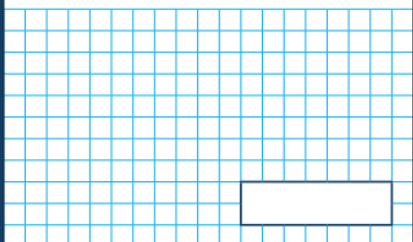
1 mark

3 $7 \times 11 =$



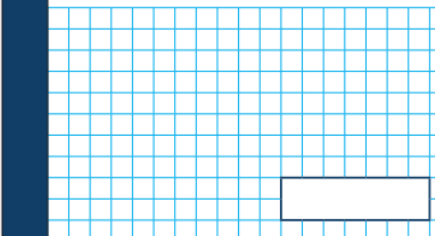
1 mark

4 $48 \div 4 =$



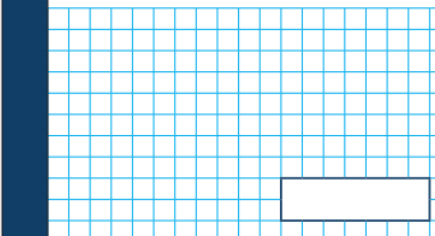
1 mark

9 $2,384 + 3,096 =$



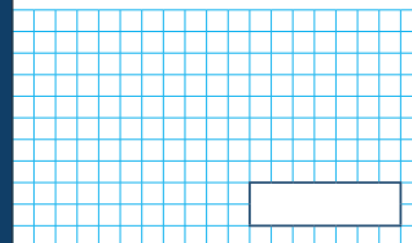
1 mark

10 $1,300 = \text{ } + 1,289$



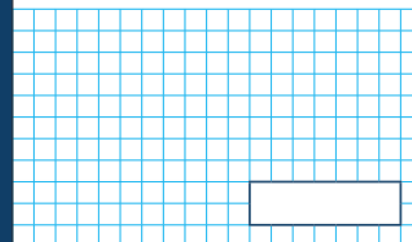
1 mark

5 $1,245 + 324 =$



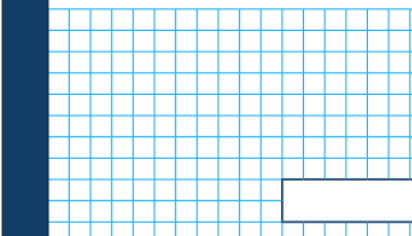
1 mark

6 $795 - 541 =$



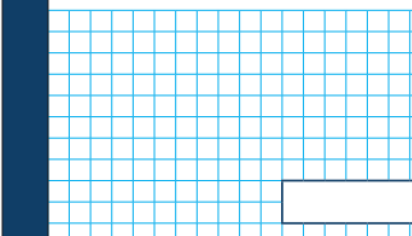
1 mark

11 $4 \times 60 =$



1 mark

12 $7,395 - 2,470 =$



1 mark