# HeadStart <br> primary 

## Year 4

## Learning Activity Booklet

For Maths \& English




## Multiply fractions and mixed numbers by whole numbers Maths Arithmetic

SECTION A- Where you can, try to write your answers as whole or mixed
numbers

| (1) | $\frac{1}{10} \times 3$ |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  | $\frac{3}{10}$ |  |  |
| 2 | $1 \frac{1}{5} \times 2$ |  |  |  |  |  |
|  |  |  |  |  |  |  |

SECTION B - Where you can, try to write your answers as whole or mixed numbers



SECTION C - Where you can, try to write your answers as whole or mixed numbers. If you can, write your answer to question 4 in its lowest terms



SECTION B




## Mastering the Maths Curriculum <br> Maths Curriculum <br> Recognise and show, using diagrams, families of common equivalent fractions

(1) For each of the following, put a circle around the shapes which have the equivalent fraction shaded. An example is shown.
(a) $\frac{1}{2} \square \square \square \square \square$
(b) $\frac{3}{4}$

(C) $\frac{1}{6}$

(2) Shade the equivalent fraction in each shape. An example is shown.

(3) For the following draw around the equivalent fraction. An example is shown.
(a) $\frac{2}{3}$

b $\frac{1}{5}$

$\left(\begin{array}{lll}0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0\end{array}\right.$



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## Mastering the Maths Curriculum

Maths Curriculum
Draw a pair of axes in one quadrant, with equal scales and integer labels
1 Use squared paper and follow the instructions below
(Squared paper can be downloaded from the internet.)
a Draw an x -axis (horizontal) with a scale from $\mathbf{0 - 1 0}$, increasing in ones.
(b) Draw a $y$-axis (vertical) with a scale from $0-8$, increasing in ones.
(c) $w$
Write the scale on each axis.
d Now draw a square, with sides $\mathbf{3}$ units.

| $\square$ | $\square$ |
| :---: | :---: |
|  |  |
|  | $\square$ |

f Next, draw a right-angled triangle. The right angle should be at point $\mathbf{A}$, side $\mathbf{A B}$ should be $\mathbf{4}$ units and side $\mathbf{A C}$ should be $\mathbf{6}$ units.
Write the co-ordinates for each point on your triangle. all questions completed appropriately

(2) Now try the following on squared paper.
a) Draw an $x$-axis with scale, increasing in fives, from 0-60.
(b) Draw a $y$-axis with a scale, increasing in fives from 0-80.
(C) Write the scale on each axis.
d Draw 3 squares. Make the sides of square A twice the length of the sides of square $\mathbf{B}$, and the sides of square $\mathbf{B}$ twice the length of the sides of square $\mathbf{C}$.

e Write the co-ordinates for each point on your squares. all questions completed appropriately

## Mastering the Maths Curriculum <br> Maths Curriculum <br> Interpret and represent data in a bar chart

Joe drew the bar chart to show the number of people who attended the carol services.

(1) Joe forgot to write the label for the $x$-axis. What do you think it should say? times of services
(2) He also missed out one of the numbers on the $y$-axis.

What is the missing number? 40
(3) How many people went to the $7: 30$ am service? 20
(4) How many people went to the $6: 30 \mathrm{pm}$ service? 90
(5) 80 people went to the $1: 00 \mathrm{pm}$ service

On the chart, draw in the bar for the 1:00 pm service

6 Why do you think that the $7: 30$ am service had the fewest people attending? any appropriate answer with reference to early morning


d Try to explain the similarities and differences between the area and perimeter for Part $\mathbf{A}$ and $\mathbf{B}$. appropriate explanation given

2 Complete the following, so that the calculations are correct. For some, there may be more than one possible answer.
(a) $2 \frac{1}{2} \mathrm{~kg}+250 \mathrm{~g}+250 \mathrm{~g}=3 \mathrm{~kg}$
(b) $2.6 \mathrm{~km}+1500 \mathrm{~m}+100 \mathrm{~m}=4.2 \mathrm{~km}$
C) $0.51+\frac{3}{4} 1+750 \mathrm{ml}=21$

3 Put the amounts in order, starting with the smallest.

$$
\begin{array}{cccc}
\frac{3}{4} \text { of } 2 \mathrm{~kg} & \begin{array}{c}
\frac{1}{2} \text { of } 2900 \mathrm{~g} \\
\hline 1450 \mathrm{~g}
\end{array} & \begin{array}{c}
\frac{2}{3} \text { of } 2.4 \mathrm{~kg} \\
\hline \text { smallest }
\end{array} & \\
\hline 1475 \mathrm{~g} & 1500 \mathrm{~g} & 295 \mathrm{~g} \times 5 \\
\hline 1600 \mathrm{~g} \\
\hline
\end{array}
$$

## CAPTAIN NELL AND FISHFACE FREDDIE

Here are some sentences with key words.
(1) Which word or phrase tells you that Captain Nell knew how to sail her ship? experience
(2) Which word tells you that Fishface Freddie didn't mean to drop the cannonball? accidentally

(3) Was Captain Nell brave? Write down the word that tells you. courageous


4 Use some of the words in the box to make sense of this paragraph After weeks at sea, they eventually__reached the long-lost, treasure island, where they started digging frantically . Nell and Freddie dug and dug until their hands were blistered and sore, but easily sandy now eventually basically tried well frantically blistered first
by sundown they had uncovered the buried treasure chest.

Reading Comprehension
English Curriculum

## HOW TO BE GOOD

The word good can mean all sorts of things. Here are some sentences that contain the word good. What does it mean in these sentences? Draw a line linking each one to its meaning. One has already been done for you.

Reading Comprehension English Curriculum
PETS

Irena has come to the front of the class to talk about her pets. Some things she says are facts; some things are opinions. Write an $f$ for fact or an o for opinion in the box under each speech bubble.

Reading Comprehension English Curriculum

THE GODS OF ANCIENT GREECE


Zeus was the god of the sky and thunder. He was king of the gods, able to unleash his thunderbolt if he ever encountered a situation that angered or caused him annoyance.


Hephaestus was the god of blacksmiths, fire and volcanoes. He worked in his own palace on Mount Olympus, forging winged helmets, weapons, and chariots for other gods.


Athena was the goddess of wisdom, civilisation, art and justice. Because of her unique qualities, Greeks worshipped her as the protector of the ancient city of Athens.


Apollo, the son of Zeus, was the god of prophecy, music, poetry and truth and was portrayed as an athletic youth. People turned to him for healing and protection from evil.


Hermes could fly quickly between the gods on Olympus and humans on Earth. Often sculpted with wings on his helmet or sandals, he was the messenger of the gods.

Now go to the next page and answer the questions. Remember you can come back and check the text for clues at any time.

## Reading Comprehension

English Curriculum
1 Match each word to one that means the opposite. One has been done for you.

(2) In the descriptions of the Greek gods, find words that mean the following:

| Meaning | Word |
| :--- | :---: |
| met or came across | encountered |
| only one of its kind | unique |
| creating something by heating and <br> hammering | forging |
| very ugly | hideous |
| a prediction of a future event | prophecy |

(3) Can you think of other words for these?

| thunderbolt |
| :--- |
| ancient <br> fearing |

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## DETECTIVE WORK

| Look for the clues in this text and work on |
| :--- |
| the answers: |


| Sam checked the calendar. "Tomorrow," she |
| :--- |
| said, "it will be Monday $24^{\text {th }}$ - my birthday. |
| Hooray!" She clapped her hands. Opening |
| the curtains, she grumbled. "I do hope the |
| weather improves by then." |

(1) Is Sam a girl or a boy? girl
(2) How do you know? Sam is referred to as 'she'.
(3) What day is it? Sunday 23 rd
(4) How does Sam feel before the curtains are opened? happy / excited
(5) How can you tell how Sam feels?

She says "Hooray" and claps her hands.
(6) How does Sam feel after the curtains are opened?
disappointed / sad / unhappy etc.
(7) What word tells you how Sam felt then? grumbled

8 What do you think the weather was like outside? wet / raining / stormy etc.

## Reading Comprehension <br> English Curriculum

## ON THE BOOK SHELVES

Here are some features of different types of writing. Draw lines linking the features to the book or pages you'd find them in. One has been done for you.


## Reading Comprehension

English Curriculum

## ON THE OTHER HAND

When we compare two different sports, pets, shops, bicycles or anything else, certain key words and phrases, such as both, the same as, different from, as well as others, make it clear what is similar and different about the two things. Underline those key words and phrases in the following texts.


While moths and butterflies both have six legs and powdery scales on their wings, usually, butterfies can be seen during he day, whereas, moths tend have tiny club shapes on the end of their ans dont havether chbious difference is that butterlies ae Another cbivous dierence is hal butternies are usually very colour. The same cannot be said resting moths hold their wings flat Butterfies however, hold their wings together above the body.

## Reading Comprehension

English Curriculum

## DEAR DIARY

Diaries contain some reference to the date, are written in the $1^{\text {st }}$ person (I and me not he or she) and are likely to be in an informal style - not perfect English. What writers write about can be their personal feelings, likes and dislikes, perhaps dreams they've remembered from the night before and hopes they might have for the future.

## DRAGON'S DIARY



Thursday, 27 th April 293 AD Dear Diary,
Had the most awful dream last night. That pest, with the rusting, clanking suit - George something or other - crept up behind me and shouted BOO! Really gets on my nerves. I'm going to sort him out one of these days. You just can't trust knights nowadays. I haven't forgotten what he said when we first met. If I toasted his bagels for him, then he would put on a show for the villagers of chasing me off. No harm done. Huh! Then Mr Puffycheeks got himself a new lance. Had to show off. Oh, yeah. Couldn't help himself he said. It'll take ages for this tail to get better. I do hope they send someone else soon. Somebody prepared to negotiate, have a chinwag, share a muffin. That'd be nice.

Write down some words and phrases that tells you this is a diary entry:
date of diary entry Thursday 27th April 293 AD
written in $1^{\text {st }}$ person behind me / my nerves / l'm going to sort him out / etc. dreams had the most awful dream last night
personal feelings gets on my nerves / Mr Puffycheeks / that'd be nice hopes for the future I do hope they send someone else soon.

## Reading Comprehension

English Curriculum

## MYSTERY

Mystery stories include strange events that need investigating, secrets, clues, witnesses who aren't believed at first, suspects and someone to sort it all out. Can you find any examples of these elements in the following investigation.

## THE HUMMINNG SHED

Detective Sergeant Morris peered down at Harriet and Jake. They could see he wasn't writing anything in his notebook - more like doodling. What they didn't see was the new neighbour watching from an upstairs window.
"So, this is the shed, is it? The one that you said... what? It hums? Look, kids, I'm trying not to laugh, but really - a shed that hums!"
"Not just humming," insisted Harriet.
"Yesterday," said Jake, "it was at the bottom of the garden. Now it's here, next to the house. Grandad went in on Tuesday, then Dad, Gran and Mum, and they haven't been seen since."

Morris shook his head. "Kids! Too many computer games." He sighed. "Look, let's sort this out once and for all." He reached for the door handle.
"No!" yelled Harriet and Jake together as the weird humming started up and grew louder and louder. A twist of pain travelled across the policeman's face as he slowly
 disappeared.

## Now write down examples of these themes:

strange event to be investigated. The shed makes a humming noise and has moved closer to the house.
clues Members of the family haven't reappeared since going in on Tuesday. witnesses Harriet and Jake
suspect the new neighbour watching from an upstairs window

## Grammar and Punctuation

## English Curriculum

## Using capital letters, full stops and commas

New sentences start with a capital letter. He always wanted to be a squire.
Proper nouns always start with a capital letter.
He was the squire to Sir Lancelot, who was one of King Arthur's knights.
Full stops finish sentences. He held the sword for the knight.
Commas can go between items in a list.
The squire carried the knight's helmet, armour, shield and sword.
Commas can be used with a connective to join two sentences together.


The squire liked polishing the armour, but he didn't like mucking out the horses.
Write out these sentences with the appropriate punctuation.

## The Squire

(1) the young king arthur served as sir kay's squire in the story of the sword in the stone The young King Arthur served as Sir Kay's squire in the story of the 'Sword in the Stone'.
(2) squires had to develop strength speed agility and leadership skills Squires had to develop strength, speed, agility and leadership skills.
(3) it was also his duty to learn about courtly etiquette jousting music and dancing It was also his duty to learn about courtly etiquette, jousting, music and dancing.
(4. the squire not only had to serve the knight in times of peace but he also had to follow him on to the battlefield in times of war
The squire not only had to serve the knight in times of peace, but he also had to follow him on to the battlefield in times of war.
(5) sir lancelot sir percival sir galahad and sir kay were all knights of the round table Sir Lancelot, Sir Percival, Sir Galahad and Sir Kay were all Knights of the Round Table.

Grammar and Punctuation English Curriculum

## Using full stops, question marks and exclamation marks

We use full stops to show where sentences end.
We use question marks to show the end of a question.
We use exclamation marks for: commands, shouting, strong feelings.
Punctuate the following sentence





## Identifying the different parts of a sentence

The subject of a sentence is a noun that performs the action.
The object of a sentence is a noun that receives the action.
The knight fought the dragon. (subject) The knight fought the dragon. (object)
A pronoun (he, she it) can also serve as a subject or an object in a sentence.
He fought the dragon. (subject) The knight fought it. (object)
In other words the subject is the person or thing doing something, and the object is the person or thing having something done to them.
State whether the underlined words are the subject or the object of the sentence.

## The Legend of Arthur

Arthur was the first born son of King Uther Pendragon. $\qquad$


He was heir to the throne. .......................
Merlin was worried about the safety of the young prince. .............................
He took the baby to a safe place where he was raised in secret. ..............................
When King Uther died, nobody could agree who would be the next king.......... subject
Merlin used his magic to set a sword into the stone. ..........................

"Whoso pulleth out this sword of this stone is the rightwise born king of all England.". ..ubject
Nobles came from far and wide to try to pull the sword from the stone. .......................
Not even the strongest men could do it.......................................
When Arthur was fifteen, Merlin took him to a tournament...........................
Sir Kay had lost his sword. .........................
Arthur went to fetch him one..............object
Arthur saw the sword in the stone and pulled it out. ..........................
The crowd cheered for Arthur when he was crowned king.........................


| Spelling |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: |
| Spud's Spelling Bingo |  |  |  |  |  |
| You will need a partner to play this game. Below is a list |  |  |  |  |  |
| of the words you have been learning from Set 1. |  |  |  |  |  |
| regretted committing | referred | admitted forbidden |  |  |  |
| fidgeting fastened | offered | limited targeted |  |  |  |
| budgeted forgotten bicycle | actually believe |  |  |  |  |
| accidentally breathe business | caught century |  |  |  |  |

Choose nine words and write them in the grid below.
(Your partner will write nine words in their grid.)

|  |  |  |
| :---: | :---: | :---: |
| $\qquad$ | .............................. | ... |
|  | .......................... |  |

Now try to guess which words your partner has written in their grid.
Take it in turns. Remember to cross out the words you have said,
so that you don't repeat them.
You get:
1 point for the first horizontal line.
1 point for the first vertical line.
1 point for the first diagonal line.


3 points for a full house
Spelling

English Curriculum

Complete the sentences below using the words above.



| Spelling English Curriculum | Spelling English Curriculum |
| :---: | :---: |
|  | Some words have the $s$ sound, but are spelt sc. Put sc into the words below to complete them, then match them to their dictionary definition. |
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