

Year 6 Home Learning Week Commencing 29.6.20

Please email your work into us using the Year 6 email address – year6@highworthcombined.co.uk

We love hearing from you and seeing everything you've been up to! Take care Year 6.

Writing

Children's Art Week

29 June – 19 July 2020

Children's Art Week 2020 will take place across 3 weeks from 29th June to 19th July. Each week has a different theme:

Week 1 - The Natural World

Week 2 - Connecting across generations

Week 3 - Literacy and creative writing

For your first activity this week we would like you to find out about an artist. You can find out about anyone who does a creative job, like a singer, painter, playwright, actor, writer or musician. Then you can write a short fact sheet about your artist explaining what their art is, how long they have been an artist for and maybe tell us about a particular piece of their art. You could include some pictures or photographs if you would like to.

We have attached 2 fact sheets to show you what your fact sheet should be like. The first one is about **Eva Rothschild** who is a sculptor and the second one is about **Andy Warhol** who became famous for his Pop Art.

Reading

Art and Nature

We have attached a reading comprehension all about art and nature.

It will tell you about a few different artists. These include a composer, an environmental artist, a poet and an ornithologist. Have a read through to see if you can find out what an ornithologist is!

Maths

Daily 10

1) We hope that you have been using the Daily 10 website to complete mental arithmetic challenges. Remember to challenge yourself to answer the questions in the minimum time of 3 seconds!

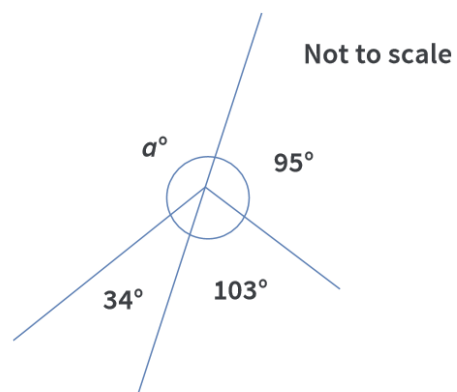
<https://www.topmarks.co.uk/maths-games/daily10>

2) We have attached a booklet of reasoning questions for you this week. There are 3 questions for you to complete each day for 5 days so a total of 15 questions.

Some questions will be testing your knowledge of number whilst others will be questions where you need to read line graphs or calculate missing angles.

Circle the prime numbers below.

1 2 4 15 19 23 242



What is the value of angle a ?

We have also attached the answers so that you can check your work and keep your own score. There is a total of 25 marks possible over the 5 days, how many will you get?

Remember that you can email us at any time if you would like us to explain a question to you – we are always happy to help!

Maths Challenge 1

Your first challenge this week involves converting units of metric measure. Attached to this matrix is a page of 14 questions for you to complete.

To be successful with this you will need to know how many grams in a kilogram, millilitres in a litre, centimetres in a metre and so on. These should help you. 😊

Converting Mass

$1 \text{ tonne} = 1000\text{kg}$
 $1000\text{g} = 1\text{kg}$
 $\frac{1}{10} \text{ kg} = 0.1\text{kg} = 100\text{g}$

$\frac{1}{4} \text{ kg} = 0.25\text{kg} = 250\text{g}$
 $\frac{1}{2} \text{ kg} = 0.5\text{kg} = 500\text{g}$
 $\frac{3}{4} \text{ kg} = 0.75 = 750\text{g}$

grams (g)

kilograms (kg)


tonnes (t)

$\div 1000$

$\div 1000$

$\times 1000$

$\times 1000$



Converting Capacity

$1000\text{ml} = 1\text{l}$
 $\frac{1}{10} \text{ l} = 0.1\text{l} = 100\text{ml}$
 $\frac{1}{4} \text{ l} = 0.25\text{l} = 250\text{ml}$

$\frac{1}{2} \text{ l} = 0.5\text{l} = 500\text{ml}$
 $\frac{3}{4} \text{ l} = 0.75\text{l} = 750\text{ml}$
 $\frac{1}{100} \text{ l} = 0.01\text{l} = 10\text{ml}$

millilitre (ml)


litres (l)

$\div 1000$

$\div 1000$

$\times 1000$

$\times 1000$



Converting Length

$1000\text{m} = 1\text{km}$
 $100\text{cm} = 1\text{m}$
 $10\text{mm} = 1\text{cm}$

$\frac{1}{2} \text{ m} = 0.5\text{m} = 50\text{cm}$
 $\frac{1}{4} \text{ m} = 0.25\text{m} = 25\text{cm}$

$\frac{3}{4} \text{ m} = 0.75\text{m} = 75\text{cm}$
 $\frac{1}{10} \text{ m} = 0.01\text{m} = 10\text{cm}$

millimetres (mm)

centimetres (cm)

metres (m)

kilometres (km)

$\div 10$


$\div 100$

$\div 1000$

$\times 10$

$\times 100$

$\times 1000$

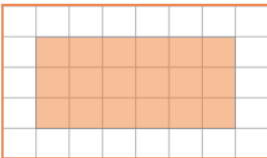


Maths Challenge 2

The second challenge this week involves calculating the perimeter and area of squares, rectangles and one compound shape. Can you remember how to do this? Use these to help you if you find it tricky.


Area of Rectangles

$\text{length} \times \text{width} = \text{area of a rectangle}$



Counting squares:
area = 18cm^2

Use formula:
 $6\text{cm} \times 3\text{cm}$
area = 18cm^2




4cm

8cm

$8\text{cm} \times 4\text{cm} \text{ area} = 32\text{cm}^2$

Perimeter of Rectangles

$\text{perimeter} = \text{length} + \text{width} + \text{length} + \text{width} \text{ or } (\text{length} + \text{width}) \times 2$




5cm

4cm

4cm

5cm

$5\text{cm} + 4\text{cm} + 5\text{cm} + 4\text{cm}$
 area = 18cm^2



6cm

2cm

$(6 + 2) \times 2$
 area = 16cm^2

Spellings

Be the Teacher - again!

Well done if you completed the spellings task last week and managed to find all the spelling errors that Mr Whoops had made.

Unfortunately, Mr Whoops is still making some mistakes so we have two more pieces of his writing that needs correcting. We need you to read through his work and highlight any incorrect spellings you can spot. Once you have done that then you need to write the correct spellings on the sheet.

Topic

Continue to use the Oak National Website.

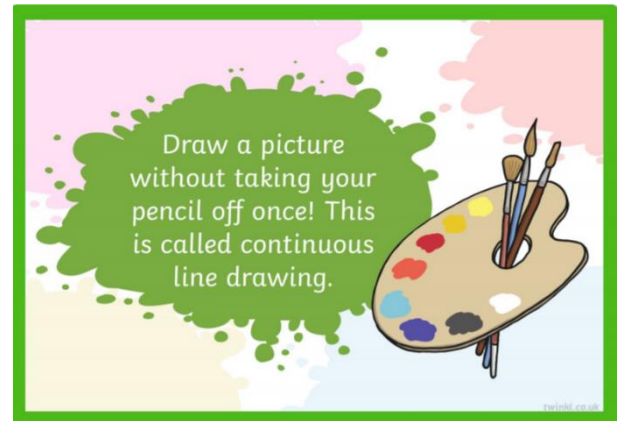
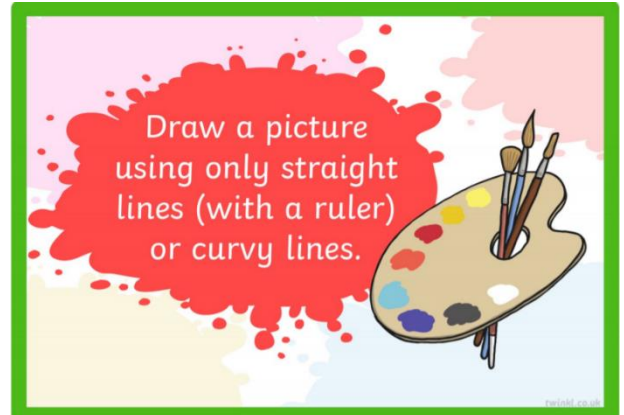
There is a huge number of amazing lessons to choose from so have a look and see what you find interesting!

There are history lessons, science lessons, music lessons and many more – give it a go!

<https://www.thenational.academy/online-classroom/year-6/>

Wellbeing and Mindfulness

Here are a couple of art activities for you. You can choose which one to complete or have a go at both.



Art

Week 1 - The Natural World

This week we would like you to make some art using items from the natural world. You could collect items from a walk in the woods, the park or in your own garden. You can use leaves, sticks, pebbles, bark, petals or anything else that you can find from the natural world. You might decide to create a picture by collaging some of the treasure you have found or maybe you might decide to make a sculpture!



We have attached 2 sheets of ideas to get you started but please let your imagination fly and see what you can make!



We cannot wait to see your creations! 😊

Eva Rothschild

1972 - present



Eva Rothschild was born in Dublin, Ireland in 1972. She studied Fine Art at the University of Ulster in Belfast, and in 1999 completed an MA in Fine Art at Goldsmith's College in London. She currently lives and works in London and has three sons.

Eva Rothschild's works primarily as a sculptor, using varied materials such as steel, concrete, jesmonite, fibreglass, Plexiglass, leather, polystyrene, wood, and paper. In her work, she explores shape and space. Her works vary in scale, from small to monumental.

In 2009, she was commissioned to create her first large-scale artwork at Tate Britain. She created the huge metal sculpture, 'Cold Corners', made up of 26 enormous triangles that visitors walked through. It was made using 1.8 tonnes of

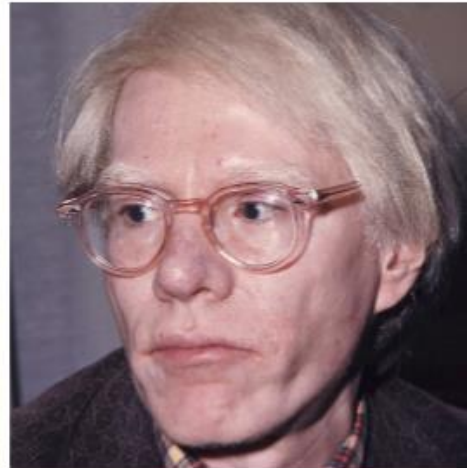
aluminium box tubing. She designed the sculpture after watching visitors interact with the building and sketching ideas.

In 2012, Rothschild made a film for the Tate, exploring how young boys would interact with her artwork. Her film shows a group of boys, aged between 6 and 12, each entering a gallery full of her sculptures. They start by looking and touching the sculptures, before completely dismantling them and playing with the pieces.

Rothschild has exhibited her work all over the world and continues to create abstract sculptures that vary in their colour, size and materials.

Andy Warhol

1928 – 1987



Andy Warhol was born on 6th August 1928 in Pittsburgh, Pennsylvania in the USA. His real name was Andrew Warhola, Jr but he dropped the 'a' from the end of his name as his success as an artist began to grow. Warhol's mother taught him to draw when he was recovering from a disease that caused his limbs to spasm uncontrollably.

After graduating from art school, Warhol moved to New York to work as an artist. He produced a wide range of art work using many forms of media including: printmaking, photography, drawing, sculpture and film. He named his studio 'The Factory' and welcomed celebrities and artists to spend time there.

Warhol is probably most famous for his pop art. In the 1960s, he painted iconic American objects such as Campbell's soup

cans and Coca-Cola bottles, and people, such as Marilyn Monroe. He also produced work for popular celebrities such as Mick Jagger and John Lennon.

In 1979, Warhol founded the New York Academy of Art. He died six years later aged 60 due to complications after stomach surgery.

Maths Challenge 1

Arithmetic

1. $\frac{3}{4} \times \frac{2}{5}$

2. $4 - 0.76$

3. 0.5×28

4. $2\frac{1}{2} \times 5$

Practice: Convert Metric Measures

5. Recap: What does 'metric' mean?



6. Convert to kilograms.

a. 3,300g

b. 520g

c. 2g

7. Convert to grams.

a. 5kg

b. 0.07kg

c. 3.202kg

8. Convert to millimetres.

a. 50cm

b. 2m

c. 0.3cm

9. Convert to centimetres.

a. 33mm

b. 5.2m

c. 0.038km

10. Define the prefixes

milli-
kilo-
centi-



11. Convert to metres.

a. 240mm

b. 82cm

c. 7.9km

12. Convert to kilometres.

a. 5,800cm

b. 3,276m

c. 470m

13. Torin says $2,540\text{g} = 254\text{kg}$.

Explain the mistake.



Challenge

14. Match the conversion with the method you would use to convert.

Convert g into kg

$\div 10$

Convert m into mm

$\times 100$

Convert m to cm

$\div 100$

$\times 1,000$

Convert mm to cm

$\div 1,000$

Maths Challenge 2

Arithmetic

1. $523,493 + 34,294$

2. 374×98

3. $\frac{2}{7} + \frac{1}{3}$

4. 28% of 370

Practice: Area and Perimeter

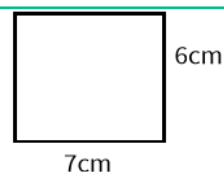
5. Recap: Define the terms:

Area

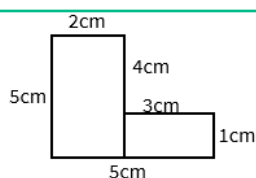
Perimeter



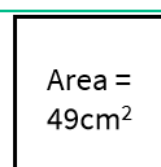
6. Calculate the perimeter of this rectangle.



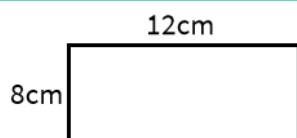
7. Calculate the perimeter of this shape.



8. Calculate the perimeter of this square.



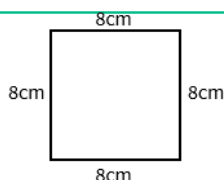
9. Calculate the area of this rectangle.



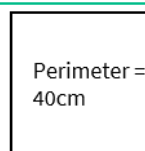
10. Write a formula for finding the perimeter and area of a rectangle.



11. Calculate the area of this shape.



12. Calculate the area of this square.



13. Lee has drawn a square with the perimeter of 24cm. He says the area is 12 cm². Is Lee correct? Explain.



Challenge

14. Draw 3 different shapes with the same area but different perimeters.

Draw 3 shapes with the same perimeter but different areas.

Mr Whoops is a little bit clumsy...OK, OK, he's a lot clumsy! Even though he's really trying hard with his writing, he's still accidentally misspelt 13 of his Y5/Y6 key spelling words. Can you spot his mistakes?

Highlight them in the passage of text.

Could you then correct the words at the bottom of the sheet and create a list for Mr. Whoops to practise?



Activity 4

Recently, I have made a conscious decision to learn a foreign language.

I visited my local book shop and searched for the Japanese category - I've always wanted to visit Tokyo! There were many phrase books available and also treated myself to a bargain Japanese dictionary. The Japanese programme I invested in comes with a guarantee to have me fluent within just forty days, but at the moment I am finding the pronunciation of the Japanese words very challenging. Sometimes I have felt like giving up but I'm a determined individual so I have kept going! I really would love to equip myself with the skills to go to Tokyo and talk fluently with the local people.

Mr. Whoops needs to practise these words:

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Activity 5

Can you keep a secret? I've taken on a new profession - working for the Defence Secretary for the UK Government as an undercover agent! I now have to live a covert existence where nobody knows my secret identity. I frequently have to work in the parliament buildings so it is necessary for me to wear a disguise so that nobody is able to recognize me. No one will be able to interfere with the politicians while I'm around and if anyone does enter the buildings and there is a risk of any immediate danger, then they'll have to give a thorough explanation to me as to why they are there. I'm willing to sacrifice myself for my job...I'm just like James Bond!



_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Maths Challenge 1 Answers

Q no.	Question	Answer
1	$\frac{3}{4} \times \frac{2}{5}$	$\frac{6}{20}$ or $\frac{3}{10}$
2	$4 - 0.76$	3.24
3	0.5×28	14
4	$2\frac{1}{2} \times 5$	$12\frac{1}{2}$
5	What does 'metric' mean?	There are two different types of units of measure: metric and imperial. Metric measures are commonly used in the UK. Metric measures follow base ten, imperial measures do not.
6	Convert to kilograms.	a. 3.3kg, b. 0.52kg, c. 0.002kg
7	Convert to grams.	a. 5,000g, b. 70g, c. 3,202g
8	Convert to millimetres.	a. 500mm, b. 2,000mm, c. 3mm
9	Convert to centimetres.	a. 3.3cm, b. 520cm, c. 3,800cm
10	Define the prefixes milli-, kilo-, centi-	Milli- and kilo- means one thousand. Centi- means one hundred.
11	Convert to metres.	a. 0.24m, b. 0.82m, c. 7,900m
12	Convert to kilometres.	a. 0.058km, b. 3.276km, c. 0.47km
13	Explain the mistake.	Torin has not divided 2,540g by 1,000 to find the equivalent kilograms. The answer should be 2.54kg
14	Match the conversion with the method you would use to convert.	Convert g into kg - $\div 1,000$ Convert m into mm - $\times 1,000$ Convert m to cm - $\times 100$ Convert mm to cm - $\div 10$

Maths Challenge 2 Answers

Q no.	Question	Answer
1	$523,493 + 34,294$	557,787
2	374×98	36,652
3	$\frac{2}{7} + \frac{1}{3}$	$\frac{13}{21}$
4	28% of 370	103.6
5	Define the terms: Area, Perimeter	Area is the amount of space occupied by a 2D shape. Perimeter is the distance around the edge of a shape.
6	Calculate the perimeter of this shape.	26cm
7	Calculate the perimeter of this shape.	20cm
8	Calculate the perimeter of this shape.	28cm
9	Calculate the area of this shape.	96cm^2
10	Write a formula for _	Perimeter - $2l + 2h$
11	Calculate the area of this shape.	64cm^2
12	Calculate the area of this shape.	100cm^2
13	Is Lee correct? Explain.	Lee has added the length and the width (6cm and 6cm) instead of multiplying the length and width. The correct answer is 36cm^2 .
14	<p>Draw 3 different shapes with the same area but different perimeters.</p> <p>Draw 3 shapes with the same perimeter but different areas.</p>	Accept answers that show six shapes that meet the criteria stated.

Natural World Art Ideas



