Hampton Vale Primary Academy



YEAR 4 HOMEWORK Pack 14

These are your additional weekly learning tasks that should be completed at least 3 times a week:

L.O.L:	
	Practice your common exception words - reading and spelling them
	Spelling - practice your spellings and complete a mini test. Don't forget about Spelling Shed!
	Reading - read your book at home to an adult/family member and discuss your reading.
	Times tables- keep practising these as you will need to know all to facts up to 12x12 in Year 5. Don't forget about TTRockstars.
Maths:	
	Practice your times tables orally, in written form or using TT Rockstars













YEAR 4 HOMEWORK



Online Classroom

As part of our home learning offer, we are encouraging all of our children to engage in the National Oak Academy home learning website.

https://classroom.thenational.academy/

This website has daily video lessons, with additional quizzes and worksheets to apply the learning.

We expect children at home to complete a daily maths, english and PSHE/foundation lesson alongside their weekly tasks (from the first page).

If you are unable to access this website, the learning has been included in this home learning pack and can be completed without the lessons.

These lessons are based on the work from week 11 (6th July), we will be working a week behind so these packs are ready for you on time. You will find all lessons by selecting Schedule, Year 4, Week 11 and the correct day. Or by following this link https://classroom.thenational.academy/schedule-by-year/year-4

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YEAR 4 HOMEWORK



Word Meaning

- Read the word aloud
- Read the word in the context of the sentence
- Can you work out the word class?
- Could you replace the word with a synonym?
- What is the root word?
- Check in a dictionary

L.O.L - Monday's lesson

Additional video available on: https://classroom.thenational.academy/

Poetry:

Reading Comprehension
Word Meaning

Read the poem below and underline words that you may not know or use in your writing very often



A Heron fishing the solitary bird waits patiently for lunch

Autumn leaves descend
A myriad of colours
Lay upon the ground

A hungry Blackbird hops on the ground, searching for unsuspecting worms



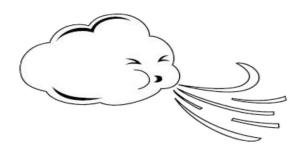


YEAR 4 HOMEWORK



L.O.L - Monday's lesson

Additional video available on: https://classroom.thenational.academy/



Wind blowing a gale
The weather forecast is bad...
Let's stay warm inside

The nocturnal owl

Most active at dawn and dusk

Seldom in the day



Answer the following questions:

٦.	Which	word	tells us	that t	he Au	tumn	leaves	are f	alling	to t	the
g	round?	•									

2. The Heron waits 'patiently for lunch'. What does this suggest?



YEAR 4 HOMEWORK



L.O.L - Monday's lesson

Additional video available on: https://classroom.thenational.academy/

3. W	'hat impression does the phrase 'a myriad of colours' g	ive the
reac	der?	

4. Find these words in the haiku then read around them to work out their meaning. Match the synonym and antonym to the word.

word	synonym	antonym
solitary	mobile	often
active	rarely	together
seldom	alone	inactive

5. Read this haiku

The nocturnal owl Most active at dawn and dusk Seldom in the day

What information does it tell the reader about the owl?	



YEAR 4 HOMEWORK



Maths - Monday's lesson

Additional video available on: https://classroom.thenational.academy/

To develop strategies to plan and solve problems

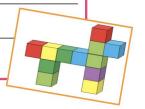
Calculation	Answer	Calculation	Answer
734 x 60 =		342 x 80 =	
143 x 70 =		425 x 90 =	

Moving on

Can you work out how many blocks would be needed to make the first 6 dogs in the sequence?

Dog number	Total Cubes
1	9
2	12
3	
4	
5	
6	

What is the rule of this sequence? What happens to the total cubes value each time? Explain in a sentence:





YEAR 4 HOMEWORK



Maths - Monday's lesson

Additional video available on: https://classroom.thenational.academy/

Main task

Can you work out how many blocks would be needed to make the next 8 dogs in the sequence? Also include the body sections!

Dog number	Body	Legs	Tail	Ears	Nose	Head	Total
6	8	12	1	1	1	1	24
7							
8							
9							
10							
11							
12							

Challenge

How many cubes for dog 100?

Dog number	Body	Legs	Tail	Ears	Nose	Head	Total
6	8	12	1	1	1	1	24
7	9	14	1	1	1	1	27

Remember:

To work out the body we use the formula:

DOG NUMBER + 2

To work out the legs we use the formula:

DOG NUMBER x 2

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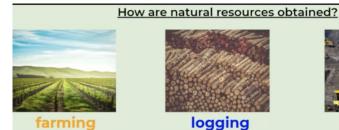


natural resources extraction deforestation pollution

Time and Place- Monday's lesson-Additional video available on: https://classroom.thenational.academy/

> How does resource exploitation cause problems?

Can you find out what our star words mean?







Farming Farming - crops and livestock Wild grains - 105,000 years ago 9500 BCE - Neolithic founder crops Animal domestication - Mesopotamia 280,000 farms in Britain



Mining / Fossil Fuels

Mining - extracting from the Earth

Mining - Mostly coal

Oil - Oil rigs and oil wells

Gas - Tends to be found on same land as oil

Power plants - Steam



Logging

Logging - cutting trees

Sawmills / paper mills

Transported - barges, trains or trucks

Agriculture



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YEAR 4 HOMEWORK



<u>Time and Place- Monday's lesson-</u> Additional video available on:

https://classroom.thenational.academy/

What problems does this create? (Farming)

Pollution: affects people and wildlife

Soil degradation: leads to erosion and desertification

Climate change: contributes to a rise in Earth's temperature

Deforestation leads to the destruction of animal and plant habitats

Irrigation - Large amounts of water required



What problems does this create? (Logging)

Forest - 30% of the world's land mass

Farming, grazing, mining and drilling - 50% of all deforestation

Logging contributes to climate change

Destruction of habitats leading to extinction

Soil erosion and flooding



What problems does this create? (Fossil Fuels)

Fossil Fuels are mainly used for producing energy and for transportation

Pollution

Breathing problems

Oil spills

Fossil fuels are exhaustible



Now go back to our lesson question. Can you write three paragraphs answering this question.

How does resource exploitation cause problems?

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YEAR 4 HOMEWORK



Language

- Skim and scan to find the word or phrase on the text
- Read the word or phrase carefully in the context of the sentence or paragraph
- What is the author trying to say in this context?
- What is the author trying to achieve by using this technique?

L.O.L -Tuesday's lesson

Additional video available on: https://classroom.thenational.academy/

Poetry:
Reading Comprehension
Language

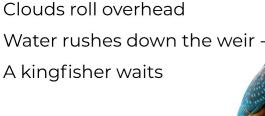




Like silent statues trees reach up towards the sky -The sun winks at me



Clutching it tightly Look - a dandelion clock -Tick tock, tick tock, tick...







YEAR 4 HOMEWORK



L.O.L -Tuesday's lesson

Additional video available on: https://classroom.thenational.academy/

A blanket of grass

The moon a shiny button

Small cotton wool clouds





An overgrown patch

Nettles constrict and choke the
flora of this wood

Answer the following questions:

trees reach up towards the sky -

i. identify the i	following from the halkus we have read today.
Simile:	
Metaphor:	
Adverb:	
Adjective:	

2. Read this haiku. Which phrases give you the impression that the trees and the sun have human-like qualities (personification)?
Like silent statues

The sun winks at me



YEAR 4 HOMEWORK



Clutching it tightly

L.O.L -Tuesday's lesson

Additional video available on: https://classroom.thenational.academy/

3. Read this haiku.

What is the effect of repeating 'tick tock, tick tock'?

Look - a dandelion clock -	
Tick tock, tick tock, tick	
4. Read this haiku.	
How has the author used the text to make the situation to Comment on the effect.	ense?
Goldfinch, Sparrow, Dove	
perched upon the bird feeder -	
The cat underneath	

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YEAR 4 HOMEWORK



L.O.L -Tuesday's lesson

Additional video available on: https://classroom.thenational.academy/

5. Read these lines from a haiku.

Tick the boxes to show whether each one contains 5 syllables or 7.

	5 syllables	7 syllables
Dappled sunlight through the trees.		
Silence surrounds me		
A squirrel watches		

Can	you the	n order t	he lines	into a h	aiku pc	em?



YEAR 4 HOMEWORK



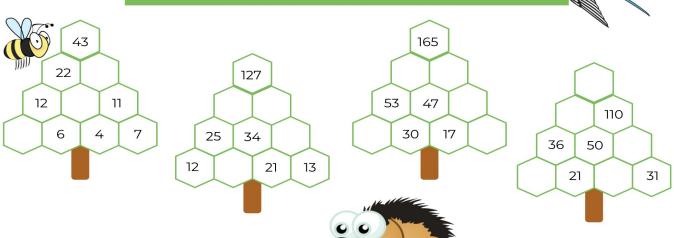
Maths - Tuesday's lesson

Additional video available on: https://classroom.thenational.academy/

To develop strategies to plan and solve problems

To Start

Complete the number trees. The number at the top is the sum of the two numbers below it.



Moving on

Can you work out how many blocks would be needed to make the first 6 steps in the sequence?

Step	Total Blocks
1	1
2	4
3	
4	
5	
6	

What is the rule of this sequence? What happens to the total cubes value each time? Explain in a sentence:





YEAR 4 HOMEWORK



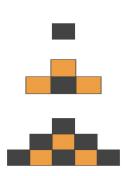
Maths - Tuesday's lesson

Additional video available on: https://classroom.thenational.academy/

Main task

What other patterns can we spot if we break it down even more?

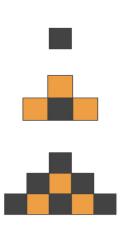
Step number	New blocks	Total blocks
Step Harriser	Trevv Brocks	rotar brooks
1	1	1
2	3	4
3		
4		
5		
6		
7		
8		



Challenge

Using what we know, how can we work out the number of blocks for ANY step number?

Step number	Way to work it out	Total
1	1x1 or 1 ²	1
2	2 x 2 or 2 ²	4
3		
9		
10		
20		
50		





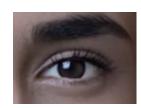
YEAR 4 HOMEWORK



Spanish - Tuesday's lesson-Physical appearance

Additional video available on: https://classroom.thenational.academy/

Los ojos The eyes



Tengo los ojos azules. I have blue eyes.

Tengo los ojos marrones.

I have brown eyes.

Tengo los ojos verdes.

I have green eyes.

El pelo The hair



Tengo el pelo marrón.

I have brown hair.

Tengo el pelo rubio.

I have blonde hair.

Tengo el pelo negro.

I have black hair.

Tengo el pelo pelirrojo.

I have ginger hair.

Activity 2: Draw a picture of yourself and describe your eyes and hair in Spanish

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YEAR 4 HOMEWORK



Read the poem below, then look at the key features.

A Heron fishing - (5) the solitary bird waits (7) patiently for lunch (5)

Autumn leaves descend
A myriad of colours
Lay upon the ground

A hungry Blackbird hops on the ground, searching for unsuspecting worms

L.O.L -Wednesday's lesson

Additional video available on: https://classroom.thenational.academy/

Poetry:
Identifying and understanding the features of a text

Key Features

- Contains three lines
- It contains 17 syllables in total:
 5 syllables in the first line, 7 syllables in the second line and 5 syllables in the third line
- Does not rhyme
- Frequently have a seasonal reference.
- Usually contain a theme of nature or natural phenomena.
 Contains two juxtaposed subjects in contrasting parts. This division can be shown by a dash or ellipsis.



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YEAR 4 HOMEWORK



L.O.L -Wednesday's lesson- Read the poem

Additional video available on: https://classroom.thenational.academy/

Wind blowing a gale

The weather forecast is bad...

Let's stay warm inside

The nocturnal owl

Most active at dawn and dusk

Seldom in the day

Like silent statues trees reach up towards the sky -The sun winks at me

Clouds roll overhead
Water rushes down the weir A kingfisher waits

Clutching it tightly
Look - a dandelion clock Tick tock, tick tock, tick...

A blanket of grass
The moon a shiny button
Small cotton wool clouds

An overgrown patch

Nettles constrict and choke the

flora of this wood



YEAR 4 HOMEWORK



L.O.L -Wednesday's lesson

Additional video available on: https://classroom.thenational.academy/

Answer the following questions:

1. How many lines are there in a haiku poem?
2. How many syllables are there in a typical haiku poem?
Identify how many syllables the words below have:
a) Squirrel b) Afternoon c) Astonishing
3. What is the most common theme in haiku poetry?
4. Read the following haiku. Identify 3 features of haiku poetry.
Goldfinch, Sparrow, Dove
perched upon the bird feeder-
The cat underneath
1
2
3



YEAR 4 HOMEWORK



Maths - Wednesday's lesson

Additional video available on: https://classroom.thenational.academy/

To identify and complete number sequences

To Start

Times tables speed challenge

	4	8	7	10	5	6	9	2	3
4									
9									
8									
10									
11									
12									
6									
7									
5									

Moving on

Can you work out how many blocks would be needed to make the first 6 steps in the sequence?

Step	Total triangles	
1	1	
2	4	
3		
4		
5		
6		

What is the rule of this sequence? What happens to the total number of triangles each time? Explain in a sentence:



YEAR 4 HOMEWORK



Maths - Wednesday's lesson

Additional video available on: https://classroom.thenational.academy/

Main task

Lets go a step further now and record more information

Step	new matches	Total matches	Triangles
1	3	3	1
2	6	9	4
3			
4			
5			
6			
7			
8			







Challenge

What do we notice? Can you explain 3 things that you notice here?

Step	new matches	Total matches	Triangles
1	3	3	1
2	6	9	4
3	9	18	9
4	12	30	16





YEAR 4 HOMEWORK



Science - Wednesday's lesson

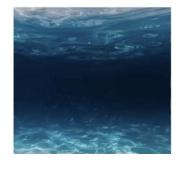
Additional video available on: https://classroom.thenational.academy/

How are organisms adapted to live underwater?



Can you find out what our star words mean?

Marine environments



The oceans cover 71% of the Earth's surface.

The oceans contain 99% of the living space on the planet.

95% of the world's oceans are unexplored.









Breathing

Movement











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YEAR 4 HOMEWORK



Science - Wednesday's lesson

Additional video available on: https://classroom.thenational.academy/

How are organisms adapted to live underwater?

Marine environments





Answer the following question in a paragraph.

How are marine animals adapted to survive under the water?

(think about camouflage, breathing and movement in your answer)

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YEAR 4 HOMEWORK



L.O.L -Thursday's lesson

Additional video available on: https://classroom.thenational.academy/

Poetry:

SPaG

Punctuation: dashes & ellipses

What are dashes?

A dash is a little horizontal line that floats in the middle of a line of text (not at the bottom: that's an underscore). It's longer than a hyphen and is commonly used to indicate a range or a pause.

Dashes are used to separate groups of words.



A Heron fishing the solitary bird waits patiently for lunch



How to use a dash?

Use a dash to show a pause or break in meaning in the middle of a sentence: My brothers — Richard and John — are visiting today.

Use a dash to show an afterthought: I attached the photo to my email — at least I hope I did!

In haiku poetry, a dash suggests an instantaneous jump from one part to the other, as if the two parts are both happening at the same time.

What is an ellipsis?

The ellipsis punctuation mark is three consecutive dots used to demonstrate:

- A pause for effect to increase tension
- An unfinished thought, or one where some meaning is implied and not spelled out
- A trail off into silence
- A word or words have been missed out from a text deliberately
- In haiku poetry, an ellipsis suggests a slight pause, as if one thing happens and then the other.

For example:

- · Slowly, we crept on into the dark cave...
- He carefully opened the container and discovered... loads of coins!
- "Do you think you're ready? I just don't know if I'm…" stammered Tom.
- The review states: "I enjoyed the film immensely... it's the perfect family fare."
- The weather forecast is bad...
 Let's stay warm inside



Wind blowing a gale
The weather forecast is bad...
Let's stay warm inside



YEAR 4 HOMEWORK



L.O.L -Thursday's lesson

Additional video available on: https://classroom.thenational.academy/

Now have a go at answering the following questions:

1. Explain the effects on these pieces of punctuation in a haiku:
A dash: An ellipsis:
2. In this haiku what is the effect of using an ellipsis (3 dots) on the second line? A prickly hedgehog Slowly shuffles towards the hedge A great place to hide
3. In this haiku what is the effect of using a dash on the second line?
Clouds roll overhead Water rushes down the weir - a kingfisher waits
4. Write a haiku using no punctuation that tells a short nature 'story'

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YEAR 4 HOMEWORK



L.O.L -Thursday's lesson

Additional video available on: https://classroom.thenational.academy/

5. Read this haiku.

The dash suggests that the rain makes the sounds pitter, patter, plop **whilst** it hits the window pane.

Dark clouds overhead rain upon the window pane-Pitter, patter, plop

Can you change the dash to an ellipsis and write a line to s might happen after the rain hits the window pane?	uggest what
	-



YEAR 4 HOMEWORK



Maths - Thursday's lesson

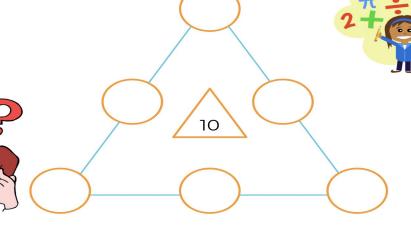
Additional video available on: https://classroom.thenational.academy/

To develop strategies to plan and solve problems

To Start

Can you fit the numbers

1, 2, 3, 4, 5 and 6 into the circles so that each 3 circles joined by lines have the same total of 10?



Moving on

Can you work out how many chairs would be needed to make the first 8 steps in the sequence?

Term	Total chairs
1	4
2	6
3	
4	
5	
6	
7	
8	

What is the rule of this sequence? What happens to the total chairs value each time? Explain in a sentence:





YEAR 4 HOMEWORK



Maths - Thursday's lesson

Additional video available on: https://classroom.thenational.academy/

Main Task

If the number of chairs increases by 2 each time, can you fill in this information?

Term	Total Tables	Total Chairs	
Term 13			'
Term 15			
Term 17			
Term 19			'
Term 21			Pay attention to
Term 23			which term of the sequence it is
Term 25			
Term 27			

The formula to work out the number of chairs is quite easy: Number of the term +1 Then

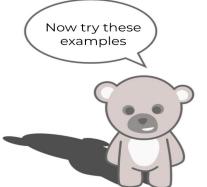
Multiply by 2

Challenge

Total chairs Term

1	4	1 + 1= 2	then 2 x 2 = 4
2	6	2 + 1= 3	then $3 \times 2 = 6$

Term	Calculation	Total chairs
31		
47		
130		



How can we use this to work out how many tables we would need for 422 people?

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YEAR 4 HOMEWORK



Star Words

economy

disposable

recycling

environment

Time and Place - Thursday's lesson

Additional video available on: https://classroom.thenational.academy/

What is the circular economy?

The Economy

Economy - making and trading things of value

Goods (physical things)

Services (things done by people)

Trade through finance (money)



Primary sector refers to the production of raw materials

Materials to be used for consumption or manufacturing

Farming, fishing, mining

Corn, coal, wood and iron



The Economy: Secondary Sector

The secondary sector involves transforming raw materials into goods (products)

Light industries: Food, textiles, paper, plastic

Heavy industries: Steel, shipbuilding

Both produce waste materials and heat



The Economy: Tertiary Sector

The Tertiary sector supports the production and distribution of products and raw materials

Transport, advertising, warehousing

Teaching and healthcare

All sectors of the economy are interlinked





YEAR 4 HOMEWORK



Time and Place - Thursday's lesson

Additional video available on: https://classroom.thenational.academy/

What is the circular economy?

The Economy: Tertiary Sector

The Tertiary sector supports the production and distribution of products and raw materials

Transport, advertising, warehousing

Teaching and healthcare

All sectors of the economy are interlinked



A **circular economy** is a systemic approach to **economic** development designed to benefit businesses, society, and the environment. In contrast to the 'take-make-waste' linear model, a **circular economy** is regenerative by design and aims to gradually decouple growth from the consumption of finite resources.

Can you find one example of the circular economy?

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YEAR 4 HOMEWORK



Your task is to write your own haiku poems.
Think about what you want to write and then be really concise in order to stick to the correct number of syllables.

You could illustrate them afterwards.

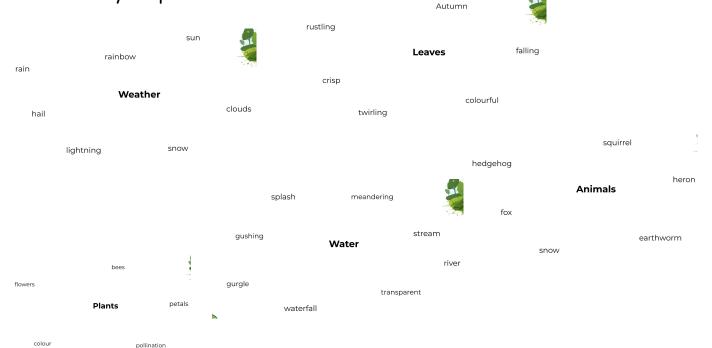
L.O.L -Friday's lesson

Additional video available on: https://classroom.thenational.academy/

Writing: Haiku poems

- Haiku have 3 lines
- Haiku have 17 syllables in total they have a syllable pattern of 5/7/5
- Haiku do not rhyme
- Haiku are usually written on the theme of nature
- You can run one line over into another
- You can use a dash or an ellipsis or no punctuation at all

Ideas for your poem





YEAR 4 HOMEWORK



L.O.L -Friday's lesson

Additional video available on: https://classroom.thenational.academy/

Figurative language

Figurative language is a key feature in poetry.

Think which features you may be able to include *such* as *similes*, *metaphors*, *personification* and alliteration.

For example:

Simile: Like silent statues

Metaphor: The moon a shiny button Personification: The sun winks at me

Alliteration: Tick tock





YEAR 4 HOMEWORK



L.O.L -Friday's lesson

ACADEMY	https://classroom.thenational.academy/



YEAR 4 HOMEWORK



Maths - Friday's lesson

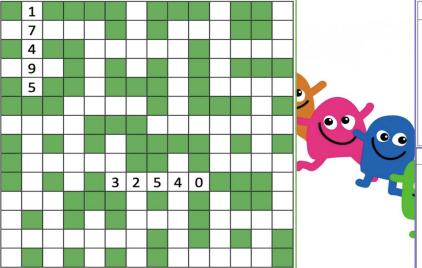
Additional video available on:

https://classroom.thenational.academy/

To develop strategies to plan and solve problems

To Start

Can you complete the number grid by putting the numbers into the correc



3 DIGITS		4 DIGITS		
149	536	1943	7561	
261	675	2845	8237	
348	796	3371	8263	
472	813	3491	9057	
483		5247	9842	
		5962		
		I		

I	5 DIGITS		6 DIGITS	7 DIGITS
	14259 52076		14259 52076 405183	
	17495	57346	843925	7265713
	28136	63307		
1	32540	65074		
1	37281	72751		
ı	42310	82714		
ı				

Sequence	Rule
25, 50, 75, 100, 125, 150, 175, 200	
-5, -10, -15, -20, -25, -30	
1600, 800, 400, 200, 100, 50, 25	
46, 62, 78, 94, 110, 126, 142	
1001, 931, 861, 791, 721, 651	
5000, 1000, 2000, 40, 8	



YEAR 4 HOMEWORK



Maths - Friday's lesson

Additional video available on: https://classroom.thenational.academy/

Can you write the first 6 terms in each sequence? – follow the rule and pay attention to the start number

The rule is add 11, the start-point is 17
 The rule is add 25, the start-point is 37
 The rule is subtract 23, the start point is 29
 The rule is subtract 9, the start point is 15
 The rule is add 104, the start point is -94

Can you write the first missing terms in each sequence?

Sequence	Rule
150, 190, , 270, 310,	
29, 34, 39, 44,,	
-9, -18, -27, , , -54	
6.4, 6.9,, 8.4, 8.9	
9.9, 8.7,, 6.3, 5.1,	
-44, -25,, 13,, 51	



YEAR 4 HOMEWORK



Maths - Friday's lesson

Additional video available on: https://classroom.thenational.academy/

Challenge 1

Have a go at answering these guestions

The numbers in	this se	quence incr	ease by 75	each tin	ne.	
Write in the two	missin	g numbers.				
	725	800	875	950		
		The number	rs in this sec	quence inc	crease by 14 each t	ime.
		Write the m	issing numb	ers.		
			82 9	96	124	138

The numbers in this sequence increase by 30 each time.

20 50 80 110 ...

The sequence continues in the same way.

Which number in the sequence will be closest to 300?



YEAR 4 HOMEWORK



Juan Miro, Landscape (The Grasshopper) 1926

Art - Friday's lesson

Additional video available on: https://classroom.thenational.academy/

Juan Miro and Automatic drawing



For this style of art you have to let your hand move across the paper without thinking about patterns or shapes.
What can you see in this picture? Ask a family member do they see the same thing or something different?

Task- Follow these instructions

- 1- Draw three large dots anywhere on your piece of paper.
- 2- Draw two long straight lines that go off the paper
- 3--Draw one long curved line that starts at one of the dots
- 4- Draw one squiggly line that starts at one of the dots and goes off the paper
- 5- Draw one large circle anywhere
- 6- Draw one large triangle anywhere.
- 7- Draw a long line that goes through the circle or triangle.



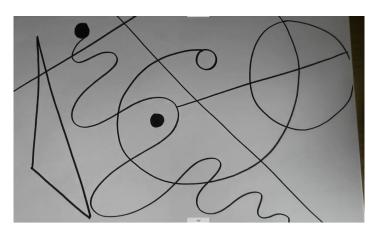
YEAR 4 HOMEWORK



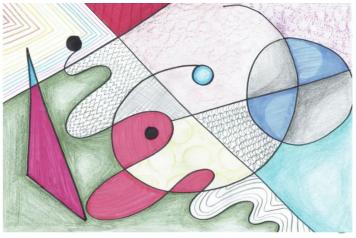
Art - Friday's lesson

Additional video available on: https://classroom.thenational.academy/





This is what mine looked like. Does yours look the same or different?
Now start to add some colours anywhere you like.



My finished piece.

- WWW: My work is original because...
 - this is my personal response to the instructions.



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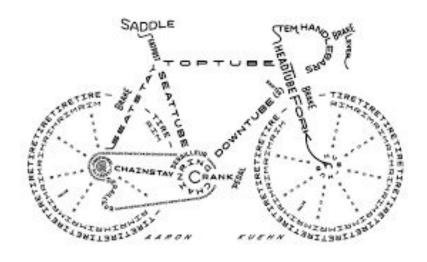


Weekly spellings:



Using your spellings words, make a picture using the words as the lines of the image, be as creative as you wish and use the word more than once within your image.

- 1. Calendar
- 2. Appear
- 3. Believe
- 4. Grammar
- 5. Increase
- 6. Interest
- 7. Opposite
- 8. Straight
- 9. Strength
- 10. Women



Rainbow Write

First write each word in pencil.
Then trace over each word three times. Each time you trace, you must use a DIFFERENT color crayon. Trace neatly and you will see a rainbow!

Hidden Words

Draw and color a picture. Hide your spelling words inside your picture.

Show your picture to someone and see if they can find your hidden words!

Silly Sentences

Write silly sentences using a spelling word in each sentence. Please underline your spelling words! Write neatly!

Example: My dog wears a blue and purple dress when he takes a bath.

Backwards Words

Write your spelling words forwards and then backwards. Write neatly!

Example:

where erehw

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YEAR 4 HOMEWORK



Year 4 common exception words:



Year 3 and 4 Common Exception Words

Αα	breath	consider	enough	group	island	natural	popular	Rr	surprise
accident	breathe	continue	exercise	guard	Kk	naughty	position	recent	Tt
accidentally	build	Dd	experience	guide	knowledge	notice	possess	regular	therefore
actual	busy	decide	extreme	Hh	ш	00	possession	reign	though
actually	business	describe	Ff	heard	learn	occasion	possible	remember	thought
address	Cc	different	famous	heart	length	occasionally	potatoes	Ss	through
although	calendar	difficult	favourite	height	library	often	pressure	sentence	Vv
answer	caught	disappear	February	history	Mm	opposite	probably	separate	various
appear	centre	Ee	forward	Ii	material	ordinary	promise	special	Ww
arrive	century	early	forwards	imagine	medicine	Pp	purpose	straight	weight
Bb	certain	earth	fruit	increase	mention	particular	Qq	strange	woman
believe	circle	eight	Gg	important	minute	peculiar	quarter	strength	women
bicycle	complete	eighth	grammar	interest	Nn	perhaps	question	suppose	



YEAR 4 HOMEWORK

Rainbow in a Glass

Watch Scientist Joe conduct the experiment here!

Materials

- * Water
- A mug
- n 5 separate cups
- A Tablespoon
- A clear glass
- * A dropper or pipette



Instructions:

- Separate the Skittles into the cups, in these amounts: 2 red, 4 orange, 6 yellow, 8 green, and 10 purple.
- 2. Heat a mug of water in the microwave for a minute and a half (or long enough that the water is hot, but not boiling). Be careful removing the water from the microwave—it's hot!
- Measure and pour two tablespoons of hot water into each cup, on top of the Skittles.
- 4. Stir each cup carefully so no water splashes out. The cups need to be cool for the next part of the experiment, so leave them somewhere where they won't get knocked over. Stir them every ten minutes or so until the Skittles are dissolved and the water is room temperature.
- 5. Using the dropper, add the colored water from the five cups to the clear glass. Start with purple, then add green, then yellow, orange, and red last. Go slowly here, we don't want the different layers to mix.
- 6. Congratulations, you made a rainbow. You didn't even have to go outside!



YEAR 4 HOMEWORK



Additional learning:



3 375 + 4 =

5 426 + 50 =

7

$$= 36 \div 3$$

8
$$\frac{1}{6} + \frac{4}{6} =$$

10
$$\frac{1}{3}$$
 of 24 =

$$11 \quad 8 \times 5 \times 4 =$$

12
$$\frac{5}{8} - \frac{2}{8} =$$



YEAR 4 HOMEWORK



Additional learning:



 \neg

16	71 —	= 34

19
$$\frac{3}{4}$$
 of 24 =

 $\overline{}$



YEAR 4 HOMEWORK

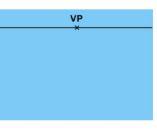


Additional learning:

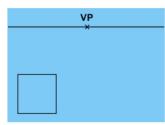


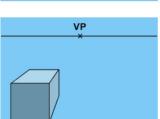
1 Vanishing Point = 1 Point Perspective

Draw a cube using a vanishing point



VP

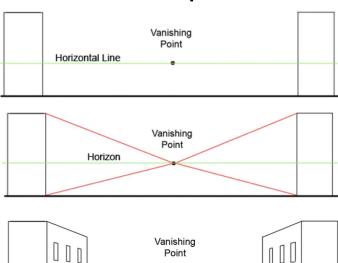




Recapping the skills in Art, practise drawing in perspective using 1 vanishing point.

Start by drawing a 3D cube, using this technique, then progress to drawing buildings.

1 Point Perspective





YEAR 4 HOMEWORK



Additional learning:



Plastic facts:

- 1500 plastic water bottles are consumed every second in the US.
- Out of the 50 billion bottles of water being bought each year, 80% end up in a landfill, even though recycling programs exist.
- 17 million barrels of oil are used in producing bottled water each year.
- Total number of plastic bags used worldwide annually 1 trillion
- Total number of plastic bags China consumes everyday 3 billion
- Total number of plastic bags used every minute in the US 1 million
- 13 billion plastic carrier bags are used in the UK each year
- Total number of years it takes for a plastic bag to degrade 1,000 years
- Total amount of plastic bags that were discarded in 2008 3.5 million tons
- Total amount of plastic floating in every square mile of ocean 46,000 pieces
- Percent of plastic made every year that will end up in the ocean 10%

Using the pictures, the information and also your own independent research. Design and create an information leaflet or poster about the dangers of ocean plastic and pollution. Include some fascinating facts like this one:

There are as many as 51 trillion microplastic particles in the sea, 500 times more than the number of stars in our galaxy.

Key questions to answer:

What is ocean plastic?
Where does it come from?
How long does it take for certain plastics to degrade?
Why is Ocean pollution a problem?
How can it be solved?



YEAR 4 HOMEWORK



Additional learning:



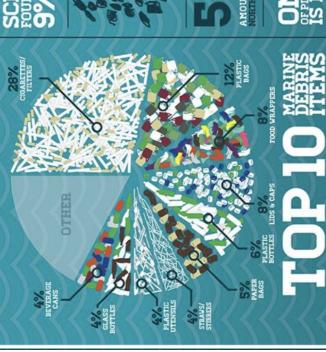




The Pacific Garbage Patch, which is one of the world's biggest environmental dangers.







SCIENTISTS FOUND PLASTIC IN 9% OF GARBAGE

THE GREAT GARBAGE PATCH FLOATING IN THE OCEAN IS A DANGEROUS GARBAGE

SCIENTISTS HAVE COLLECTED UP TO 1.9 MILLION BITS OF PLASTIC PER SOUARE MILE OF THE GREAT PACIFIC GARBAGE PATCH X OA

THE GREAT PAC GARBAGE PATIS LARGER TH

THERE IS 6 TIMES MORE PLASTIC THAN PLANKTON











301/905

IN AREAS AFFECTED BY THE GREAT

AMOUNT OF TIME IT TAKES GARBAGE FROM ASIA TO REACH THE GARBAGE PATCH

AMOUNT OF TIME IT TAKES GARBAGE FROM NORTH AMERICA TO REACH THE GARBAGE PATCH

ONLY 7%
IS RECYCLED (

COMES FROM LAND OF THE GARBAGE IN THE OCEAN, COMES FROM SHIPS TONG UNTIL IT'S GONE?



1,000,000+ YEARS

■ 600 YEARS

450 YEARS

A COLOR

0

BO YEARS SO YEARS N 20 YEARS

> RUBBER BOOT ALUMINUM CAN

FISHING LINE GLASS BOTTLE

DISPOSABLE DIAPERS

MILK CARTON 1 3 MONTHS CIGARETTE FILTER 1 5 YEARS

MOH

PLASTIC BAG TIN CAN

PACIFIC GARBAGE PATCH, FISH INGEST APPROXIMATELY 12,000 - 24,000 POUNDS OF PLASTIC EVERY YEAR



YEAR 4 END OF YEAR EXPECTATIONS

This page provides information for parents and carers about the end of year expectations for Year Four children in our school. These expectations have been identified as being the minimum requirements your child must meet in order to ensure continued progress throughout the following year.

Reading

- · Read a range of texts for enjoyment
- · Re-tell some stories orally with expression
- · Give a personal point of view on a text
- · Identify themes and conventions in a wide range of books
- Discuss words and phrases that capture the reader's interest and imagination
- · Recognise and perform different forms of poetry
- Explain a text with confidence
- Justify inferences with evidence, predicting what might happen from details stated or implied
- Identify how sentence type can be changed by altering word order, tenses, adding/deleting words or amending punctuation
- · Skim and scan to locate information and/or answer a question

Speaking and Listening

- · Articulate and justify opinions
- Speak with clear diction so that the audience can hear what is being said
- · Maintain and monitor the interest of the listener
- Participate in discussions, taking turns and listening to what others have to say

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YEAR 4 END OF YEAR EXPECTATIONS

Writing

- Plan, draft and write in a range of genres
- Proofread for spelling and punctuation errors
- · Evaluate and edit own and others writing
- Read aloud own work, to a group or the whole class using appropriate intonation and tone
- · Build a varied and rich range of vocabulary
- · Use adjectival phrases (e.g. biting cold wind)
- · Vary sentence structure, using different openers
- · Appropriate choice of noun or pronoun
- Apostrophe for singular & plural possession
- Comma after fronted adverbial (e.g. Later that day, I heard some good news.)
- · Use commas to mark clauses
- Use connectives to link paragraphs around a theme
- Legible, joined handwriting of consistent quality
- · Spell common homophones
- Use prefixes and suffixes
- · Spell words that are often misspelt

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YEAR 4 END OF YEAR EXPECTATIONS

Maths

- · Count backwards through zero to include negative numbers
- Compare and order numbers beyond 1000
- · Compare and order numbers with 2 decimal places
- \cdot Read Roman numerals to 100 (I to C) \cdot Find 1000 more/less than a given number
- Count in multiples of 6, 7, 9, 25 & 1000
- \cdot Recall & use multiplication & division facts for all tables to 12 imes 12
- · Recognise Place Value of any 4-digit number
- · Round any number to the nearest 10, 100 or 1000
- · Round decimals with 1dp to nearest whole number
- Add & subtract: Numbers with up to 4-digits using efficient written method Numbers with up to 1dp
- Multiply 2-digit by 1-digit numbers and 3-digit by 1-digit numbers using column multiplication
- Divide 3-digit by 1-digit using short division
- · Count up/down in hundredths
- · +/- fractions with same denominator
- · Identify simple equivalent fractions
- Add and subtract fractions with common denominators
- Recognise and write decimal equivalents of any number of tenths or hundredths
- Recognise, round and write decimal equivalents
- · Read, write & convert time between analogue & digital, 12 & 24 hour clocks
- · Compare 2-D shapes, including quadrilaterals and triangles
- · Find the area and perimeter of a shape
- · Estimate and calculate measurements
- Identify properties of angles
- Introduce simple translations and identify symmetry
- · Use coordinates
- Use bar charts, pictograms and line graphs
- Estimate, compare and calculate different measurements, including money in pounds and pence
- · Solve number and real-life problems