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### Year 6 Learning in School Week 5

We understand that children who are not yet able to attend school may be curious to know and to have a go at, the learning their peers have completed in school this week. With this in mind, we will be sharing a simple outline of the learning completed in school at the end of each week. There is no expectation that children complete this learning alongside what they are already doing, however if they would like to Miss Kober and Miss Revels-Hull would be delighted if you shared this with them through the learning.saxon email account.

<u>Subject</u>	<u>Learning Task</u>
English	<p><b>Video by Miss Revels-Hull for 6K and 6R:</b>  <a href="https://youtu.be/aQdknbuQ0kU">https://youtu.be/aQdknbuQ0kU</a></p> <p>Children received a letter from their local secondary school (attached below). Children wrote a response letter to tell their Year 7 tutor all about themselves.</p> <p><i>You might like to write your own response letter answering all of the questions listed.</i></p>
Maths	<p><b>Video by Miss Revels-Hull for 6K and 6R:</b>  <a href="https://youtu.be/ii84KHAadlQ">https://youtu.be/ii84KHAadlQ</a></p> <p>Children completed problem solving questions, using their knowledge of algebra.</p> <p><i>You will find the questions the children worked from in class, below.</i></p>
Transition	<p>Children had the chance to explore their chosen secondary school's website.</p> <p>Thamesmead website link: <a href="https://www.thamesmead.surrey.sch.uk/">https://www.thamesmead.surrey.sch.uk/</a>  Thamesmead move to Year 7 page: <a href="https://www.thamesmead.surrey.sch.uk/moving-into-year-7/">https://www.thamesmead.surrey.sch.uk/moving-into-year-7/</a></p> <p>Chertsey High website link: <a href="https://www.chertseyhighschool.co.uk/">https://www.chertseyhighschool.co.uk/</a>  New Year 7 page: <a href="https://www.chertseyhighschool.co.uk/2450/new-year-7-20202021">https://www.chertseyhighschool.co.uk/2450/new-year-7-20202021</a></p> <p>Bishop Wand website link: <a href="http://www.bishopwand.surrey.sch.uk/">http://www.bishopwand.surrey.sch.uk/</a>  Year 6 Transition link: <a href="http://www.bishopwand.surrey.sch.uk/1649/year-6-transition">http://www.bishopwand.surrey.sch.uk/1649/year-6-transition</a></p> <p>East Hampstead Community School website link <a href="https://www.epschool.org/">https://www.epschool.org/</a></p> <p>Sir William Perkins website link: <a href="https://www.swps.org.uk/">https://www.swps.org.uk/</a></p>



Lumen Learning Trust c/o Saxon Primary School, Briar Road, Shepperton TW17 0JB

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Tour of school video: <https://www.swps.org.uk/admissions/virtual-open-days>

Fullbrook School website link: <http://www.fullbrook.surrey.sch.uk/>

The Reach Academy <https://www.reachacademyfeltham.com/>

Matthew Arnold: <https://www.matthew-arnold.surrey.sch.uk/>

Children looked at understanding how to become a responsible adult. This included understanding their financial responsibilities.

*You may choose to research about the history of money and then go on to explain the function of money in society. You may also want to ask your adult about what expenditures they have to budget for each week to gain a greater understanding of how much things cost.*

Dear Year Sixes,

We hope that you are keeping yourselves busy with lots of learning, family time and fun time (not to mention reading!) during lockdown. Hopefully you and your parents or carers have read our advice on how and where to find reading material, some suggested activities for reading, and a reading list. We thought we'd set you some writing challenges too.

**This is your first task:**

**Write a letter to your form tutor or English teacher to tell us about yourselves.** You could include:

- Your favourite thing about English
- Your favourite book
- Your nickname if you have one!
- What you enjoy doing - hobbies etc
- What you have loved about primary school
- What you are looking forward to about secondary school

These are only suggestions – you could tell us a funny anecdote – anything you like!

Remember to:

- ✓ Start with an appropriate salutation ('Dear...') and sign off the letter appropriately too
- ✓ Write in paragraphs
- ✓ Use a range of punctuation – as accurately as you can
- ✓ Use a range of sentence types
- ✓ Use impressive vocabulary
- ✓ Proof read!
- ✓ You could read your letter to somebody in your house and ask them for some feedback.

## A11a Sequences Term-to-Term Rule

1) Write the first five terms of each sequence

- |                               |                              |
|-------------------------------|------------------------------|
| a) Start at 1 and add 5       | d) Start at 8 and subtract 4 |
| b) Start at 30 and subtract 4 | e) Start at -10 and add 6    |
| c) Start at 11 and add 9      | f) Start at 4 and subtract 3 |

2) For each sequence, describe the rule and find the next two terms

- |                           |                               |
|---------------------------|-------------------------------|
| a) 5, 7, 9, 11, __, __    | d) -1, 2, 5, 8, __, __        |
| b) 11, 16, 21, 26, __, __ | e) 6, 2, -2, -6, __, __       |
| c) 22, 19, 16, 13, __, __ | f) -42, -35, -28, -21, __, __ |

3) Here is a pattern made up of sticks



- a) Write the pattern as a number sequence.
- b) Describe the rule.
- c) Find the next five terms of the sequence.

## Sequences

### A11b Position-to-Term Rule

For each sequence, find the first 5 terms and the 10th term.

a)  $3n - 1$

b)  $n + 2$

c)  $5n + 2$

d)  $4n - 7$

e)  $10n + 9$

# Sequences

## A11c Finding the $n$ th Term

1)



Pattern 1



Pattern 2



Pattern 3

- a) Draw pattern 4
  - b) How many lines would be in Pattern 6?
  - c) How many lines would be in Pattern  $n$ ?
- 2) Work out the  $n$ th term of the following number patterns.
- a) 2, 4, 6, 8, . . . .
  - b) 3, 5, 7, 9, . . . .
  - c) 5, 8, 11, 14, . . . .
  - d) 1, 5, 9, 13, . . . .
  - e) 12, 22, 32, 42, . . . .
  - f) 2, 8, 14, 20, . . . .
  - g) 3, 4.5, 6, 7.5, . . . .
- 3) Write down the first four terms and the 10th term of the following number patterns.
- a)  $n \longrightarrow 3n$
  - b)  $n \longrightarrow 3n + 2$
  - c)  $n \longrightarrow n - 3$
  - d)  $n \longrightarrow 2n + 5$
  - e)  $n \longrightarrow 3n - 7$
  - f)  $n \longrightarrow 5n + 3$
  - g)  $n \longrightarrow 4n - 1$

## A12 Solving Basic Equations

1) Solve

a)  $x + 5 = 8$

b)  $x + 7 = 9$

c)  $x - 3 = 12$

d)  $x - 6 = 10$

e)  $2 + x = 5$

f)  $2x = 14$

g)  $3x = 30$

h)  $\frac{x}{2} = 8$

i)  $\frac{x}{5} = 7$

j)  $\frac{4x}{3} = 8$

2) Solve

a)  $5x + 2 = 17$

b)  $3x - 1 = 17$

c)  $2x + 10 = 20$

d)  $4x - 7 = 29$

e)  $4 + 2x = 14$

f)  $\frac{x}{2} + 3 = 7$

g)  $\frac{x}{5} - 2 = 4$

h)  $\frac{2x}{5} - 1 = 9$

i)  $\frac{3x}{2} + 5 = 11$

j)  $\frac{4x}{5} + 6 = 8$

# A13a

## Rearranging Formulae Basics

- 1) Rearrange to make  $x$  the subject of the formula

- a)  $y = x - 2$
- b)  $y = x + 7$
- c)  $y = x + t$
- d)  $y = 5x + 3$
- e)  $y = 2x - 4$

- 2) Rearrange to make  $x$  the subject of the formula

- a)  $3x + 2 = y$
- b)  $4x - 1 = y$
- c)  $ax - 3 = y$
- d)  $ax + m = t$
- e)  $x + y = t$

- 3) Rearrange to make  $x$  the subject of the formula

- a)  $y = x + t - v$
- b)  $ax - c = y$
- c)  $y = ax - tv + c$
- d)  $y + x = ct$
- e)  $c + ax + t = y + m$