Autumn Term - Year 7

Below are a series of learning objectives from each of the units that are covered in year 7. For each learning objective there are additional revision resource (video), practice and extension tasks. These resources are additional resources that you can use with your daughter.

1. Sequences

Learning Objective	Revision Resource	Practice	Extension
Describe and	KS3 Maths -	<u>Arithmetic</u>	Missing Terms
continue sequences	Sequences - The	<u>Sequences</u>	(transum.org)
	Basics - YouTube	(transum.org)	
		Level 1 only	
Linear and non-	Linear and	Sequences	Find the Sequence
linear sequences	Nonlinear	(corbettmaths.com)	(mathspad.co.uk)
	Sequences:Real		
	World - YouTube		
Continue linear	Continuing	<u>Sequences</u>	Sequences patterns
sequences	<u>Sequences -</u>	(corbettmaths.com)	(corbettmaths.com)
	<u>YouTube</u>		
Continue non-	Continuing	Geometric	
linear sequences	Sequences -	<u>Sequences</u>	
_	YouTube	(transum.org)	
		Level 1 only	

2. Understand & use algebraic notation

Learning Objective	Revision Resource	Practice	Extension
Given a numerical	Number Machines -	Function Machines	Function Machines
input, find the	<u>YouTube</u>	(corbettmaths.com)	(corbettmaths.com)
output of a single			
function machine			
Use inverse	Number Machines -	Function Machines	Function Machines
operations to find	<u>YouTube</u>	(corbettmaths.com)	(corbettmaths.com)
the input given the			
output			
Use diagrams and	1MM - Algebraic	PowerPoint	Function Machines
letters with	Function Machines	Presentation	Questions - MME
function machines	- YouTube	(wix.com)	(mathsmadeeasy.co
			<u>.uk)</u>
Substitute values	Basic intro to	Substitution	Substitution
into single	<u>substitution -</u>	(transum.org)	<u>Practice Questions</u>
operation	<u>YouTube</u>		<u>– Corbettmaths</u>
expressions			
Substitute values	Basic intro to	Substitution	Substitution
into two-step	substitution -	(transum.org)	<u>Practice Questions</u>
expressions	<u>YouTube</u>		<u>– Corbettmaths</u>

3. Equality & equivalence

Learning Objective	Revision Resource	Practice	Extension
Solve one-step	Solving One-Step	3-solving-one-step-	Solving Two-Step
linear equations	<u>Linear Equations -</u>	equations.pdf	Equations(1) -
involving +/- using	<u>YouTube</u>	(mathsgenie.co.uk)	<u>YouTube</u>
inverse operations			
Solve one-step	Solving One-Step	3-solving-one-step-	Solving Two-Step
linear equations	<u>Linear Equations -</u>	equations.pdf	Equations(1) -
involving x/÷ using	<u>YouTube</u>	(mathsgenie.co.uk)	<u>YouTube</u>
inverse operations			
Understand the	Collecting Like	Collecting Like	
meaning of like and	<u>Terms (1) -</u>	<u>Terms</u>	
unlike terms	<u>YouTube</u>	(corbettmaths.com)	
Simplify algebraic	Simplifying	Collecting Like	Expanding a Single
expressions by	<u>Algebraic</u>	<u>Terms</u>	Bracket - YouTube
collecting like	Expressions -	(transum.org)	
terms, using the ≡	<u>YouTube</u>		
symbol			

4. Place value & ordering integers & decimals

Learning Objective	Revision Resource	Practice	Extension
Understand and	Words to Figures -	Numbers in Words	Words Figures
write integers up to	<u>YouTube</u>	(transum.org)	(corbettmaths.com)
one billion in			
words and figures	Figures to Words -		
	<u>YouTube</u>		
Round integers to	Rounding to the	Rounding to the	Rounding
the nearest power	<u>nearest ten -</u>	nearest whole	(corbettmaths.com)
of ten	Corbettmaths -	<u>number</u>	
	<u>YouTube</u>	(transum.org)	
Compare and order	Ordering Numbers	Snappy Sorting	Ordering Numbers
any number up to	- Corbettmaths -	(transum.org)	(corbettmaths.com)
one billion	<u>YouTube</u>		
Round a number to	How to Round	Rounding to the	Significant Figures
1 significant figure	Numbers to	nearest whole	(corbettmaths.com)
	Significant Figures	<u>number</u>	
	#20 - YouTube	(transum.org)	

5. Fraction, decimal & percentage equivalence

Learning Objective	Revision Resource	Practice	Extension
Convert between	Fractions to	Fraction Decimal	Fraction Order
fractions and	Decimals -	Pairs (transum.org)	(transum.org)
decimals	Corbettmaths -		
	<u>YouTube</u>		
	Decimals to		
	<u>Fractions -</u>		
	Corbettmaths -		
	<u>YouTube</u>		
Convert fluently	Fractions decimals	FDP Mixture pdf	Fractions,
between fractions,	percentages -	(corbettmaths.com)	Decimals and
decimals and	Corbettmaths -		<u>Percentages</u>
percentages	<u>YouTube</u>		(transum.org)
Identify and use	Equivalent	Equivalent Fractions	
simple equivalent	<u>Fractions -</u>	(transum.org)	
fractions	Corbettmaths -		
	<u>YouTube</u>		
Understand the	Fraction decimal	Percentage Squares	Estimating
meaning of	and percent from	(teachingideas.co.uk)	Percentages
percentage using a	visual model -		(transum.org)
hundred square	<u>YouTube</u>		