

Mathematics

Sep 2015



Welcome

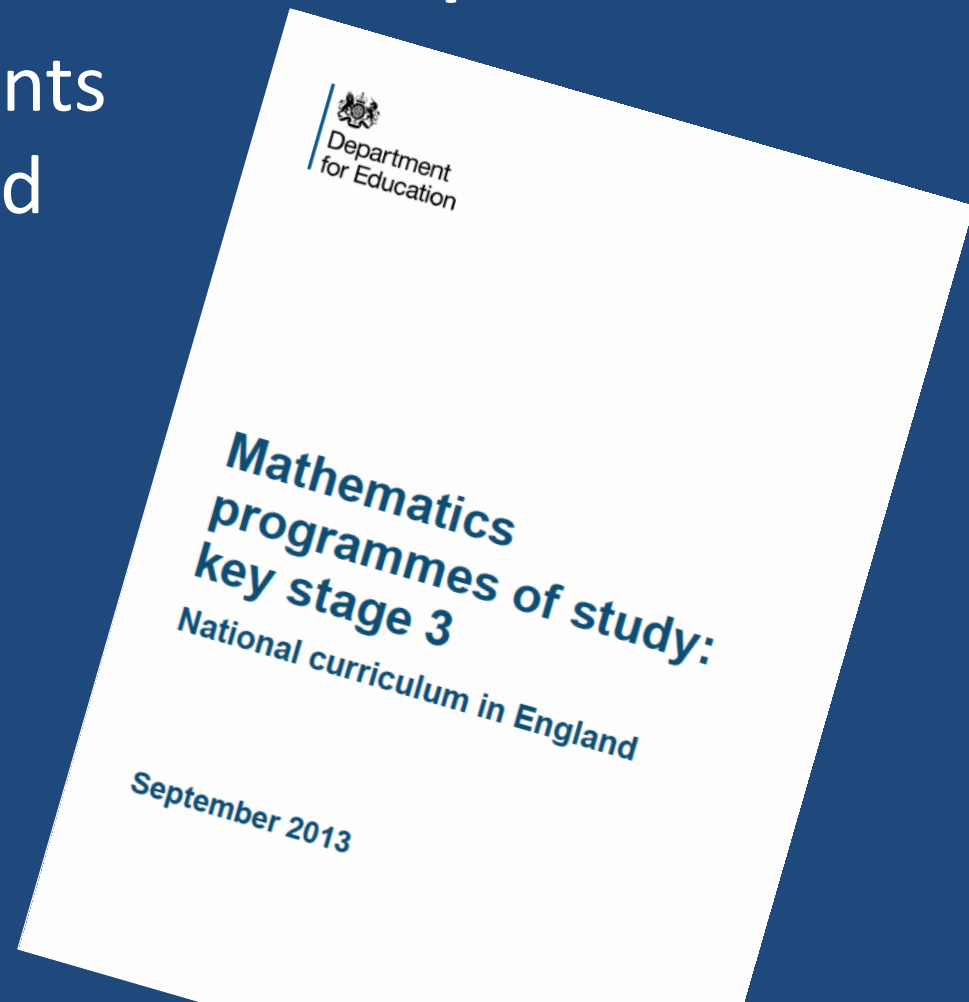


- Mrs Stephens – Head of Mathematics
sstephens@penair.cornwall.sch.uk
- Team of 7 others, a mix of experienced and new energetic teachers all passionate about teaching the subject



Key Stage 3 (KS3)

- New National Curriculum from **Sep 2014**
- Builds on what students have already achieved in KS2



KS3 Aims

- become **fluent** - recall and apply knowledge rapidly and accurately.
- **reason mathematically** – explain, justify, prove
- **solve problems** and persevere in seeking solutions.



Content



Problem solving in a variety of contexts

- Number
- Algebra
- Ratio, proportion and rates of change
- Geometry and Measures (Shape & Space)
- Probability and Statistics (Handling Data)



Changes to the National Curriculum



- Overall higher demand
- Students expected to ‘master’ topics in the curriculum for their age group
- No more levels
- Extra emphasis on number skills
- Financial literacy specifically mentioned



Your child's time with us

Sep 2014 to Jul 2015	Sep 2015 to Jul 2016	Sep 2016 to Jul 2017	Sep 2017 to Jul 2018	Sep 2018 to Jul 2019	Sep 2019 to Jul 2020
Year 6	Year 7	Year 8	Year 9	Year 10	Year 11
Transition to new NC	New NC for KS3	New NC for KS3	New NC for KS3	GCSE syllabus	GCSE syllabus examined at the end of Y11
SAT level	Placed in to sets using their SAT information	Sets adjusted	Sets adjusted		Grades 9 to 1 (the fourth year since this was started)
	Regular tests to check progress but no levels				



Year 7 maths sets

- SAT information used as our starting point
- 4 sets in year 7
- Just four sets means each still has a range of ability - works well in maths
- Assessments every half term
- Review of progress partly informed by these assessments
- Set changes where necessary
- Changes will be written in student planners



Topic lists

- All students, regardless of their set, follow the same topics
- Support or extension provided in class
- Topic lists are stuck into their maths book
- Topic lists also on the school website

1) Integers, Powers & Roots

- a) Find the highest common factor & lowest common multiple of two numbers through listing.
- b) Solve problems using prime numbers
- c) Write numbers as a product of prime factors.
(factor tree)
- d) Find the highest common factor & lowest common multiple of two numbers using a Venn Diagram & solve problems with these.
- e) Add, subtract, multiply and divide using negatives.



Helping your child

- Look through their book
 - praise effort and perseverance
 - ask them to explain it to you
 - share their enjoyment



Helping your child

- Check their planner & Show My Homework to see what Maths has been set
 - one a week
 - ask them to explain their homework



Helping your child

- My Maths website www.mymaths.co.uk
 - penair/seven
 - homework may be set on this
 - can be used to recap at home
 - great for revision




Helping your child

- Do puzzles at home such as Suduko & Kenken or others in newspapers and magazines or on phone apps - this helps with problem solving skills
- www.nrich.maths.org has a variety of problems to try



Helping your child

- Help them be organised
 - bringing their book
 - bringing equipment
 - completing and handing in homework



Casio Calculators
£5.00
from school



Support for you or your child

- Ask
 - students can ask their teacher to give them extra support whenever it is needed. Just ask!
- Online
 - www.mymaths.co.uk is an excellent help to parents & students at home.
- email
 - you can email your child's teacher directly if needed - the addresses are on our website



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