

Welcome to Haslingfield's Curriculum Evening

- **Core values- Mrs Petty**
- **Developing problem solving and reasoning through Big Maths- Mrs Petty**
- **Providing a purpose for writing and WAGOLL through Pobble- Miss Peck**
- **Enabling children to communicate online safely-Mr Brown**

CORE VALUES

Autumn

- ◉ Respect and Tolerance
- ◉ Determination and Perseverance

Spring

- ◉ Empathy and Kindness
- ◉ Honest and Responsibility

Summer

- ◉ Aspiration and Excellence
- ◉ Independence and Cooperation

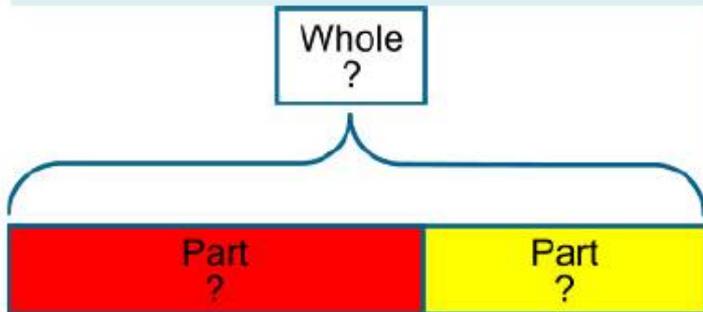
Reasoning and Problem Solving

Jane Jones (HMI & national lead for Mathematics):

- * become **fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- * **reason mathematically** by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- * can **solve problems** by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.
- * Please see the articles from Nrich about the importance of reasoning:
<https://nrich.maths.org/10990> and <https://nrich.maths.org/11336>

All of these play an important part in supporting pupils' conceptual understanding and reasoning skills.

Can you name these?



Flexibility with different representations is an important element of fluency.



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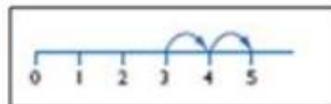


Resources to help build concepts

Numicon



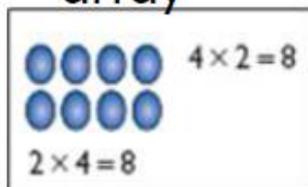
number line



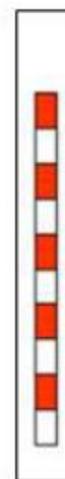
geoboard



array



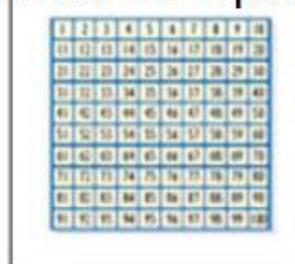
counting stick or metre rule



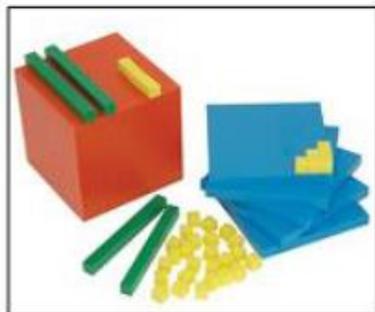
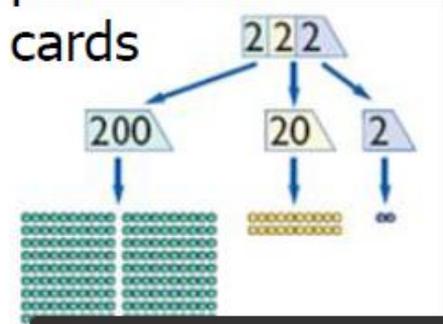
empty number line



hundred square



place value



Dienes blocks
base-ten blocks

bead string



Developing reasoning ...

... research by Terezinha Nunes (2009) identified the ability to reason mathematically as the most important factor in a pupil's success in mathematics.

Development of Maths Capabilities and Confidence in Primary School

<http://dera.ioe.ac.uk/11154/1/DCSF-RR118.pdf>



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Big Maths

- * Bi-weekly maths problem solving/investigations
- * Moving towards these being embedded in most lessons
- * Reasoning is essential- making sure the children can articulate why they know something
- * Ensuring we encourage the children to see if they can solve problems in other ways.
- * Using Nrich problems -aligned to each year group's curriculum.

Reasoning needs to be taught

Sentence starters that we encourage :

- * I know that because
- * If that is true then.....
- * When you it means the will.....
- * If this is true then ...
- * I know that the next one is ... because ...
- * This can't work because ...
- * When I triedI noticed that ...
- * The pattern looks like ...
- * All the numbers begin with ...
- * Becausethen I think
- * This won't work because ...

How can we encourage reasoning?

- what do you notice?
- true or false?
- odd one out?
- do, then explain
- spot the mistake
- give an example of ...
- continue the pattern
- convince me/prove it

Understanding the problem

List the facts that will be important in finding the solution:

- * What do you need to find out? What questions do you have? What are you uncertain about? Is there any unfamiliar or unclear language?

Planning and communicating a solution

- * Will you work logically? In what order will you use the clues? Will you use trial and error?
- * Can you spot any patterns?
- * Will you find one that can be used as a starting point and from which the others can be logically thought out?
- * Will you use a bar model to help visualise the clues?
- * Will you use objects/pictures to stand for the people and places in order to help visualise the situation?

Reflecting and generalising

- * Did the strategy work as planned? Will you be able to apply this method of problem solving to other similar problems?
- * Would a different method have worked better for you for this problem?

Extend the learning

How can this strategy be applied to more complicated problems involving additional factors?

How do we make straightforward problems more challenging?

- * reversing the problem
- * making the problem more open
- * asking for all possible solutions
- * asking why, so that pupils explain
- * asking directly about a mathematical relationship.

How can you help?

- * Discuss problems (real life and not!) at home but ask them to explain why? How do they know that? This will help them to be better mathematicians and scientists too.

- * For ideas, visit:

<http://www.cre8atemaths.org.uk/resources>

Or wild maths

<https://wild.maths.org/wild-maths>

- * We will be adding specific year groups problems to our website so you can practise these at home if you wish.

English-Miss Peck

- **Previously introduced:**

Big Write- developed quality and quantity of writing; progressive build up has been very supportive to their writing.

This will continue this year as will our focus on editing.

Big Talk before the Big write has had a significant impact so thank you – please keep doing this. They need to be able to say it before they write it!

New this year-the cold write



Pobble 365 One picture. One teaching resource. Every day. How to use... Pick a...



ber 17th The Ghostly Shadow Photo courtesy of Marius K... One Big PH



Pobble

Why?

- Gives the children a purpose to write and an opportunity to celebrate their work.
- Enables us to share their work with you so you can also praise their efforts.
- Allows them to see good examples of other children's work from other schools and allows them to use elements of these in their own writing.
- Sharing ideas allows children to develop their creativity which in turn will improve the standard of writing.

Pobble

- Each teacher will be uploading up to 5 children's work each week to share. These children will be awarded a sticker and a certificate in class.
- Staff members will be commenting on the children's work. Please do make positive comments too.
- Celebrate our Pobblers' writing on our wonderful writing display and in our newsletter.
- Permission slips-please return them if you haven't already.
- Only positive and constructive comments will be posted. These are very closely monitored by Pobble and staff.



Haslingfield Endowed Primary School

Cambridge, United Kingdom

Haslingfield Endowed Primary School is a mixed primary school located in Cambridge, United Kingdom. It has around 157 students from 4 to 11 years old.

165 Views

25 Comments

8 Published authors

haslingfield



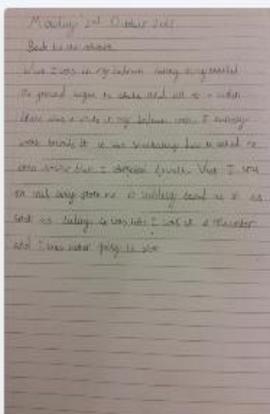
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All groups



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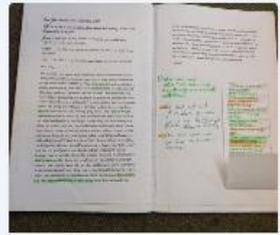
Latest



Ages 7-8

Time travel

https://www.pobble.com/works/e99df7dc



Ages 10-11

Diary entry about an air raid in WW2

Stanley • Haslingfield Endowed Primary School
After studying diaries and how they are written, we wrote a diary entry focussing on our senses. The...

entry, creative writing, ww2, p365, diary, pobble 365

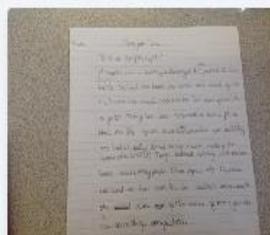


Ages 10-11

Newspaper report about WW2

Hannah • Haslingfield Endowed Primary School
After finding out about why WW2 started, we wrote newspaper reports.

creative writing, directspeech, newspaperreports, reported, direct, speech, p365, pobble 365



Ages 9-10

Time Travel

Cara • Haslingfield Endowed Primary School
We wrote the opening of a Time Travelling story. We thought about a catchy title, narrative hook and...

creative writing, scene, narrativehook, settingthe, p365, time

1 month ago



Ages 10-11

Time travel Pooble workshop

Madelin • Haslingfield Endowed Primary School



Ages 10-11

Time travel Pooble workshop

Jack • Haslingfield Endowed Primary School
Today, we started our adventure into using Pooble. Our topic is World War Two and we wrote a story...

world war two, creative writing, timetravel, p365, pobble 365

Library

- **Everyone now has an assigned slot**
- **In the Spring term there will be a library session after school for you to change your child's book.**
- **Lots of new books**
- **Thanks to PTFA and parents for donations**
- **New non-fiction books will be arriving soon**
- **Librarians**

Spelling-huge improvement

- **No Nonsense Spelling has been introduced throughout Y2-6**
- **Spellodrome-useful to practise spellings at home in a fun way**
- **Half-termly recap of all spellings learnt developing long term memory**
- **Common exception words for year groups are regularly assessed and strategies shared on how to recall these.**
- **Watch this space for spelling strategies and support on our website**



Computing - Mr Brown

Starz+

An online learning platform
to inspire teachers and children to
share and learn online.



What is Starz+?



Starz+ is a learning platform designed specifically for primary-age children.

It provides:

- email messaging
- blogs
- discussion forums
- information areas



What is Starz+?

- Starz+ provides tools used for educational purposes at school and at home and it is set up to be as safe as possible for your children.
- The system is provided to us by Cambridgeshire County Council and is powered by E-schools.





Why Starz+?

- It is part of the National Curriculum.
- It supports every other area of the curriculum.
- But it is also an essential life skill.





Why Starz+?

- It gives children the experience of using Computing online.
- It provides us with a means of communicating with a wider world and working together both within our school and with other schools.





Why Starz+?

- It shares with adults at home the type of work that your children are doing.
- We encourage you to login (alongside your child) and see what they have been doing at school.
- The best way to find out what Starz+ has to offer is to ask your child to show you.





How does Starz+ help keep your child safe?

- Byron Review in 2008 - all schools teach children about how to keep safe online.
- Dedicated lessons and also through regular reminders to the class.
- It is a moderated environment.





How does Starz+ help keep your child safe?

In school, Starz+ includes the following features to keep your child safe:

- Entry to Starz+ is by individual username and password.
- Pupils can only email other pupils in school or trusted others.
- Email can be monitored by teachers.





How does Starz+ help keep your child safe?

In school, Starz+ includes the following features to keep your child safe:

- Pupils can send a report if they receive an upsetting message or blow the whistle on inappropriate content or behaviour.
- Children are directed to age appropriate media and web based resources.
- Discussion forums can be monitored.



Report this message



When will my child start to use Starz+?

Starz+ has a range of educational resources

- Child-friendly search tools
- Age appropriate resources for our children.

- Diary writing (blogging)
- Setting homework
- Discussion forums
- Quizzes





What are we doing with Starz+?

- Children will be introduced to Starz+ in an approach which is designed to be used only with an adult in school or with you at home.
- Once they are ready, your child will move to using the platform with a great level of independence.





What are we doing with Starz+?

- Children will be learning e-safety using this learning platform.
- It provides an excellent foundation for moving on to secondary school, and beyond, where the use of online systems is increasingly common.





What are we doing with Starz+?

'ACE' Accredited Competence in E-safety

- ACE is a scheme for children using a learning platform to show that they are adopting safe behaviours and deserve to be awarded the Accredited Competence in E-Safety.





What are we doing with Starz+?

- Bronze: showing awareness of how technology keeps you safe
- Silver: developing independence and managing a greater range of online activities
- Gold: presenting an online identity and managing risk effectively anytime, anywhere.





Will using Starz+ reduce the risk?

- It is never too early for young children to start learning how to keep safe.
- Children can only learn that skill if they have direct experience of the technology.





Keeping a watchful eye

- Starz+ keeps children safe through a combination of education, people and technology.
- Our school uses Starz+ to teach e-safety in specific lessons and through regular reminders to our children.
- We discuss the risks with them and they have helped draw up the rules for keeping safe.





Keeping a watchful eye

- Further develop children's competences in e-safety with various other activities.
- We are particularly careful that children understand the importance of keeping their password private.
- The message system only allows our school's pupils to send messages to each other or trusted adults in school.





Keeping a watchful eye

- The 'Whistleblowing' tool allows children to raise any worries they have about behaviour within and beyond Starz+.
- Experienced Local Authority staff monitor activities that our children will be taking part in.
- Just try to keep in tune with what they are doing and also how long they spend online.



Report this message



Keeping a watchful eye

- Parents play a big part in keeping children safe. Start by talking to them regularly about what they are doing with Starz+.
- During the last seven years for over 30,000 children across Cambridgeshire it has provided a very safe environment.





What should I do now?

- Talk to your child about what they do in Starz+ both at school and home.
- If your child is in Key Stage 1 then you should sit with them for some short periods of time and look at what is online in the class area.





What should I do now?

- Older children should be able to 'walk you through' the Starz+ platform and talk about what they do, who they message, and what activities they like to access.
- Teachers will also set homework for pupils in Starz+ so you might want to see what this entails.



Thank you

Any questions?

**Please don't hesitate to come and speak to any
of us.**

Thank you for your support.