

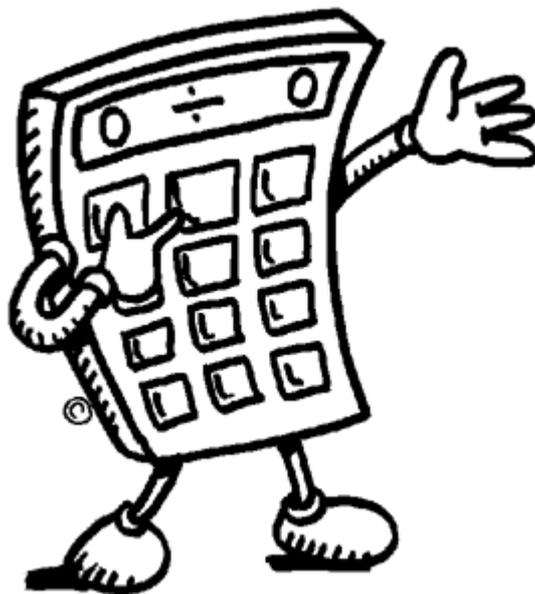


Welcome to Petworth CofE Primary School's Maths calculation morning. I hope you find some of the information in this handout useful.

There is also a working out page at the back of the handout, if you fancy trying some of the methods you see this morning.

Aims of the morning

- To have a clearer understanding of how we support the learning of:
 - Addition and Subtraction
 - Multiplication
 - Division
 - Reasoning.



Aims for your child.

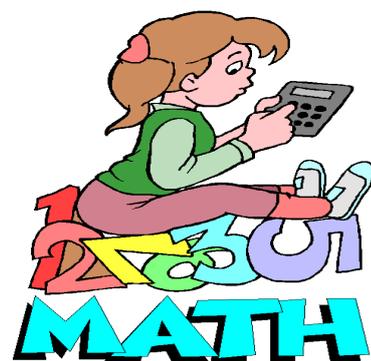
At Petworth we aim to follow the key principles of calculation, and promote these as a learning tool to children. These are listed below and they may be useful to think about in terms of your child's learning.

Can I:

- Do this in my head?
- Use jottings?
- Use calculation methods which are *appropriate, reliable and efficient?*
- Understand and explain my methods.

What else can I do with my child?

- Ensure you introduce maths as fun!
- Various ideas on the websites list,
- Cooking, looking for shapes, number plate puzzles, counting money, shopping, get children involved in practical activities,
- 'I have the number ... what's the question?'
- Play card games. Most card games require collecting totals, matching or remembering numbers that have gone before. They are excellent practise for mental arithmetic!
- Play board games. The buying of items or giving of money often helps with understanding larger amounts,
- Help to improve your child's confidence in maths.



How can I help my child be more confident in maths?

Gaining confidence is the key to success and there are a number of things parents can do to install this confidence:

- Get children involved in practical activities and encourage them to ask questions about what they are doing.
- Talk to them about what they are doing, whether they need help or whether they are unsure of anything.
- Help them to think for themselves. Don't always tell them the answer straight away - ask them how they would set about solving a problem. A great deal can be learnt from listening to what they think should be done. Talking and discussing is time well spent in the long run!
- Give children challenges. i.e. it can be great fun and motivating to beat ones parent at saying the 3 times table!
- When your child makes a mistake, treat it as a learning opportunity, as the mistake may well highlight a more fundamental lack of understanding of an earlier concept. The best way to deal with mistakes is to ask how they reached the answer.
- Rewards are always well received. Be positive and the enthusiasm will rub off on them.

Practical ideas/games and great websites

<http://www.primaryhomeworkhelp.co.uk/maths/index.html>

Lots of games to teach times tables and other calculations.

<http://www.mathszone.co.uk/>

Interactive games for all key objectives

<http://nrich.maths.org/public/search.php?search=All%20Games>

An excellent website which is updated with new games monthly aimed at KS1, KS2 and beyond.

<http://www.mathplayground.com/games.html>

Great games for helping children learn in all areas of maths.

<http://www.murderousmaths.co.uk/>

Website based on the Murderous Maths Books, packed full of amazing maths games and tricks! (KS2)

<https://community.mathletics.com/signin/#/student>

All of the pupils in key stage 2 have full access to this site.

<https://ttrockstars.com/>

Times table practice

<https://www.mrnussbaum.com/>

American website, but there are some clever games on here.

Working out space

Addition and subtraction

Multiplication

Division

Reasoning

Thank you for coming.