



Appleton Mathematics Policy

The Department for Education states in the new national curriculum for September 2014 that:

Every state-funded school must offer a curriculum which is balanced and broadly based and which:

- promotes the spiritual, moral, cultural, mental and physical development of pupils at the school and of society, and
- prepares pupils at the school for the opportunities, responsibilities and experiences of later life.

Aims:

At Appleton School we believe that every child is entitled to a high quality mathematics education, which will provide a foundation for them understanding the world. As a result, we aim to foster a sense of enjoyment and curiosity about the subject. It is our belief that our pupils should:

- **become fluent in the fundamentals of mathematics**, so that they:
 - have a well-developed sense of number values
 - know by heart key number facts, e.g. times-tables and related division facts, number bonds – in line with the latest programmes of study
 - apply knowledge of the above to work out connected facts
- **reason mathematically**, so that they:
 - are able to follow a line of enquiry
 - provide generalisations and proof of findings around their investigations
 - are able to justify their thinking, e.g. as to why a particular calculation strategy is the most efficient
- **solve problems by applying their understanding of mathematics**, so that they:
 - encounter a variety of both routine and non-routine problems
 - are able to select specific maths skills and/or operations
 - persevere with a line of enquiry, breaking down increasingly complex problems into a series of smaller steps

Coverage:

In order that our children get a broad and balanced mathematical curriculum, we will ensure that the following domains are covered each year:

- Number:
 - number and place value
 - addition and subtraction
 - multiplication and division
 - fractions, including decimals and percentages
- Measurement:
- Geometry
 - properties of shape
 - position and direction
- Statistics
- Ration and proportion (Year 6)
- Algebra (Year 6, although the foundations will be taught from Key Stage 1)

Appleton School is committed to fostering positive attitudes towards the subject, whilst ensuring that all pupils develop deep conceptual understanding (in part, through exposure to a range of models and images) and mastery across the domains listed above, and in line with their age group. Teachers will actively diagnose and address perceived 'gaps' in conceptual understanding. Concerns will be discussed with the Maths co-ordinator and SENCo, as to whether further support is needed. How pupil learning is then developed as a result will be monitored. In line with the new curriculum's focus on children making connections, our school will provide regular and stimulating cross curricular enrichment opportunities.

Organisation:

In order to respond to latest changes in the mathematical landscape, including the latest inspection framework, we will ensure that:

- Maths provision and impact on learners is evaluated and reviewed regularly via the School Improvement Plan and aligned maths action plan. As part of this process, the maths subject-leader (alongside other senior leaders) will triangulate evidence from a range of monitoring activities (e.g. planning/book scrutinies, learning walks/observations and pupil voice) to determine next stages of development.
- CPD needs of our staff, including the maths subject-leader and teaching assistants, are regularly reviewed and planned as appropriate. The expectation is that staff attending CPD will be given planned opportunities to cascade key messages, or share through lesson study.
- Use the draft Calculation Policy from the Primary Support Team to demonstrate the progression for calculation methods.

Last reviewed: ____26.11.14_____

Date of next review: ____November 2017_____

Signed: ____*Susan Hine*_____

(Chair of Governors)