Subject on a page **Computing at Denby Free**

Intent

Preparing children to live in a world where technology is continuously and rapidly evolving, so much so that children are being prepared to work with technology that doesn't even exist yet.

Children have the skills required to flourish in Computing so that they can be technologically proficient

Children are provided with guidance and support to develop their understanding of how to stay safe online in the digital world.

We want our pupils to understand that there is always a choice with using technology and as a school we utilise technology to model positive use.

Our knowledge rich curriculum has to be balanced with the opportunity for pupils to apply their knowledge creatively which will in turn help our pupils become skilful computer scientists

Implementation

We follow a clearly sequenced and progression program of study based on the National Curriculum and National Centre for Computing Education

How?

High quality teaching that is appropriately pitched to all learners.

Children learn to use a range of electronic devices such as IPads and Chrome Books

Explicit vocabulary is taught to enhance children's understanding and engagement

Children are given the opportunity to develop a range of computing skills using the 4 Cs: Coding, Communicate, Collect, Connect.

Online Safety lessons are explicitly taught to develop children's knowledge and understanding of being safe online.

Cross-curricular links used to allow children to experience how computing can fit into the wider world.

We Challenge and Support

Adapted tasks for different groups are used, as well as challenges as children develop confidence in using new software and hardware.

Groupings are flexible and regularly monitored

Additional scaffolds

Use of additional adults

Additional Challenge Tasks

Targeted questioning

Planned Intervention groups

Adaptation of questions

Opportunities for independent, group and paired work to support

Focusing on the basics

How to log in

How to keep passwords safe and secure

How to save work

How to access online tools such as TTRockstars

How to use Google Classroom

Consistency with a Team Approach

Regular staff meetings and briefings

Feedback from monitoring

Planning and resource support

Task Variety

A variety of software and applications are used during teaching.

Children will use different types devices to explore the different ways that IT can be

Well Structured Lessons

I do, we do you do approach

Staff created lesson slides

Range of tasks to practice, challenge and support.

Reasoning and Problem Solving Tasks

Mini Plenaries (throughout the lesson)

- Address misconceptions
- Peer/self assess
- Peer demonstration

Assessment

Instant

Verbal Feedback

Written Feedback

Sharing of work

Formative

Unit Assessments

End of Year Assessments

Summative

Children save their work to the cloud that can be accessed by the class teacher who can monitor the output during and after lessons

Regular Monitoring

Staff Questionnaires

Pupil Questionnaires

Co-Ordinator looks at saved work

Pupil Voice

Learning Walks

Resource Audits

Conversations with staff both planned and on an ad hoc basis

Support/CPD from Purple Mash

Additional opportunities to support the teaching and delivery of Computing and online safety are regularly sought and utilised including information from outside providers e.g BT Internet Legends, the local police force, information for parents shared on Class Dojo.

Impact

Children can talk about their learning in Computing using appropriate and technical vocabulary.

Children understand how to be safe online and in the digital world including their digital footprint and the impact of this.

Children apply their computing knowledge to other areas of learning.

Children are confident in technology in this digital world and Modern Britain.

Children are prepared for the next stage of their Computing learning and able to apply these computing skills.