



Subject: Computing

Subject Leader: Vicki Capstick

### Concepts / Themes / Big Questions

Concepts

Information Technology

Computer Science

Digital Literacy

Online Safety

### NC / Other Links

The 2014 National Curriculum for Computing has been used to ensure the statutory content and coverage is covered in our Shap Computing curriculum.

### Cultural Capital

At Shap, our aim is to give children the knowledge and skills to prepare them for what comes next in their lives. In Computing, this includes:

- ◆ Empowering pupils to apply their computing skills and knowledge to the wider curriculum and acknowledge links between subjects.
- ◆ Exploring how ideas in computing have inspired others, and they create digital products which incorporate their own beliefs.
- ◆ Developing morally through the encouragement of good etiquette when using technology.
- ◆ Socially pupils are encouraged to assist one another in problem solving.

### Enrichment: People, Locality and County

- ◆ Sarah Zaman (Computing at Schools)
- ◆ Ian from Systems IT to help with leaning and teaching and resources
- ◆ Sound Scape through West-morland Dales
- ◆ Animation through- Eden Rivers Trust
- ◆ UCC/QEGS???
- ◆ Dove Cottage- Minecraft
- ◆

### Enrichment: Resources

- Laptop trolley
- Tablet trolley
- Digital microscopes
- Data loggers
- Beebots
- Rugged Robot
- Micro:bits
- Lego WeDo
- Busy Things
- Espresso

### Links to Christian Vision and Values

#### Links to other Subjects

Maths:

- ◆ sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) (Year 1)
  - ◆ describe position, direction and movement, including whole, half, quarter and three-quarter turns. (Year 1)
  - ◆ use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise). (Year 2)
  - ◆ interpret and construct simple pictograms, tally charts, block diagrams and simple tables. (Year 2)
- Science & D&T-Electricity and Electric Posters (Year 4/3 Cycle A)
- ◆ Children used desktop publishing to create their electric posters.
- Art-

### Links to SDP and School Priorities

- ◆ Priority 1- to construct an ambitious curriculum that is coherently planned and sequenced from EYFS to Year 6.
- ◆ Priority 3- to ensure effective monitoring and accountability for the quality of education.
- ◆ Priority 5- to develop subject leaders, subject and pedagogical content knowledge to enhance the teaching of the curriculum.

### Assessment / Proof of Progress

Both formative and summative assessment is used in Computing.

Formative assessment is used during weekly Computing lessons by teachers and teaching assistants. Formative assessment can be done in many ways, including: marking and verbal feedback during or after the lesson, questioning and discussions. In Computing, formative assessment is used to inform future planning, grouping, interventions and to correct any misconceptions that arise.

Summative assessment is used at the end of each Computing unit. The final lesson in each unit is a way for children to demonstrate what skills they have developed through the unit. During other lessons and continuous provisions, children are able to apply the skills they have been taught. Teachers and teaching assistant will use the Computing progression map to assist their teacher assessment judgments.

### Monitoring Procedures

Throughout the year, both formal and informal monitoring takes place. Each term, formal monitoring takes place and consists of:

- ◆ A book/PowerPoint/folder scrutiny
  - ◆ Pupil voice
  - ◆ Learning walks
- Different children of differing abilities are selected for the pupil voice, this is to ensure we gain a broad spectrum of views to aid improvements to the Computing curriculum and the children's learning. During the pupil voice, children have their books/folders or class PowerPoint, to aid and support discussions. These are then used for the book scrutiny.
- Becky Grace is the link governor for Computing. Every term, link governor monitor meetings are organized to discuss findings from the learning walks, pupil voices and book scrutinies.

### Main Subject Action Areas

- ◆ Develop my own subject knowledge about online safety.
- ◆ Inform and promote online safety to parents and provide them with places to go for help.
- ◆ Create a whole school approach on how we are going to record computing and online safety.