COMPUTING AT SACRED HEART

Tolerant

Mutual respect is encouraged, particularly on-line. Children are made aware of the need to be respectful, tolerant and non-biased when dealing with other people. Children are encouraged to develop their communication skills in working with different types of media, working safely and appropriately with other people .

Democracy

Children learn how to select relevant information from valid online sources that reflect different viewpoints and the disadvantages of relying on single sites.

They will start to understand the value of using online forums/blogs as a means by which to appreciate a variety of viewpoints on a host of topics.

Rule of Law

Children are taught about the legal implications of downloading music/film from "free" sources or posting offensive/slanderous material on social media. They will also learn the term copyright and what this means.

Equality

All children are given appropriate hardware to allow them to succeed with the task.

Mutual Respect

Children will learn of Online 'etiquette' – how to engage in an online community positively including how to respond to and debate with others. Rules of social media are continually explained and updated where necessary, so children are aware of the potential pitfalls of sending and receiving messages online.

Individual Liberty

Children are encouraged to develop their own ideas yet retain responsibility in what they do, both on and off line. Children are taught about:
• How to use the internet positively including social media.
• How to leave a digital footprint that is seen as positive and how this can impact on their lives.
• The history of computing and the influence of key historical figures from the UK in the development of modern day technology.
• The associated dangers of the internet are highlighted to children and they are advised on about what action to take if they are uncomfortable with any online content they see.
• Ethics behind Copyright.

Inquisitive Investigators
Children investigate through a variety of topics 'How things work', from coding Beebots, to creating network maps of the internet.

Stewards of Creation
Children research how technology can be used to help our outside world, for example, through green energy. They are encouraged to appreciate the advantages of technology, whilst at the same time understanding the importance of time limits on such devices.
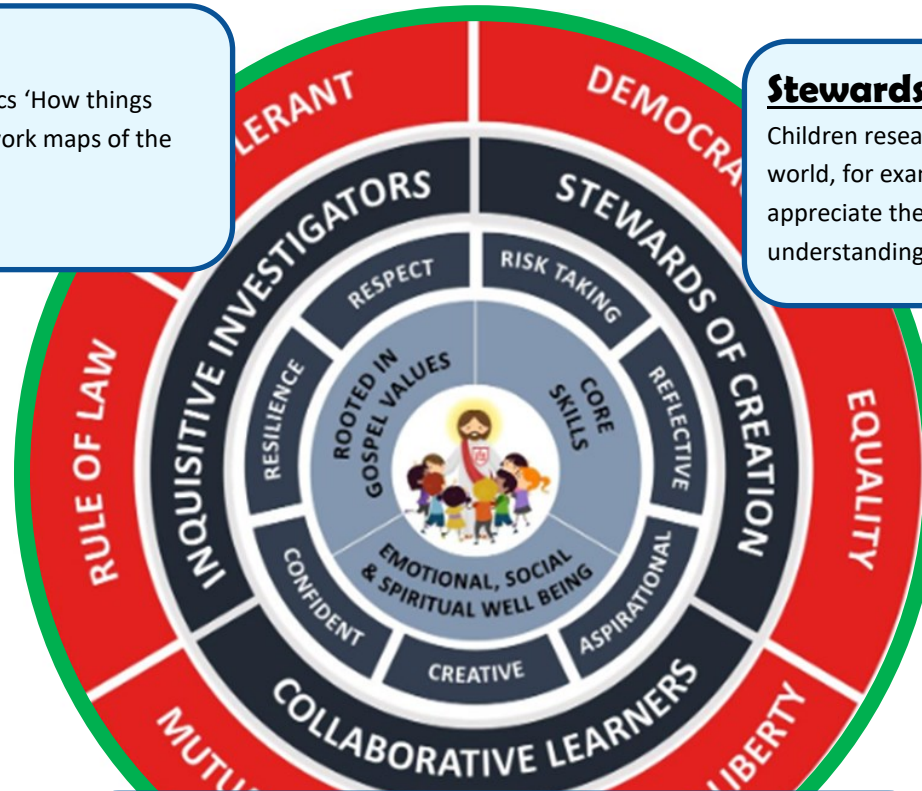
Collaborative Learners
Computing, in both industrial and academic contexts, is a collaborative endeavour. Where possible, teachers construct activities so that children can work together, supporting one another in their learning.
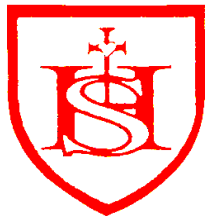
Respect

Pupils should develop their sensitivity to others online, treating them with respect, and showing respect for their privacy.

Resilience

An important skill when learning Computer Science is resilience. Children will learn through making mistakes and will require resilience when editing and improving their work.

Confident

To exploit fully the opportunities that current and future technology offers them, children will draw on the understanding of computing teachers provide them with, as well as confidence gained through working on a range of meaningful projects throughout their time at Sacred Heart.

Risk-taking

Children are taught to have a growth mind-set and to give all aspects of the Computing curriculum a go.

Reflective

Teachers try to link activities with childrens' own experiences, both within and beyond school: cross-curricular projects work very well, as do those linked to the life of the school itself, or to childrens' experiences of
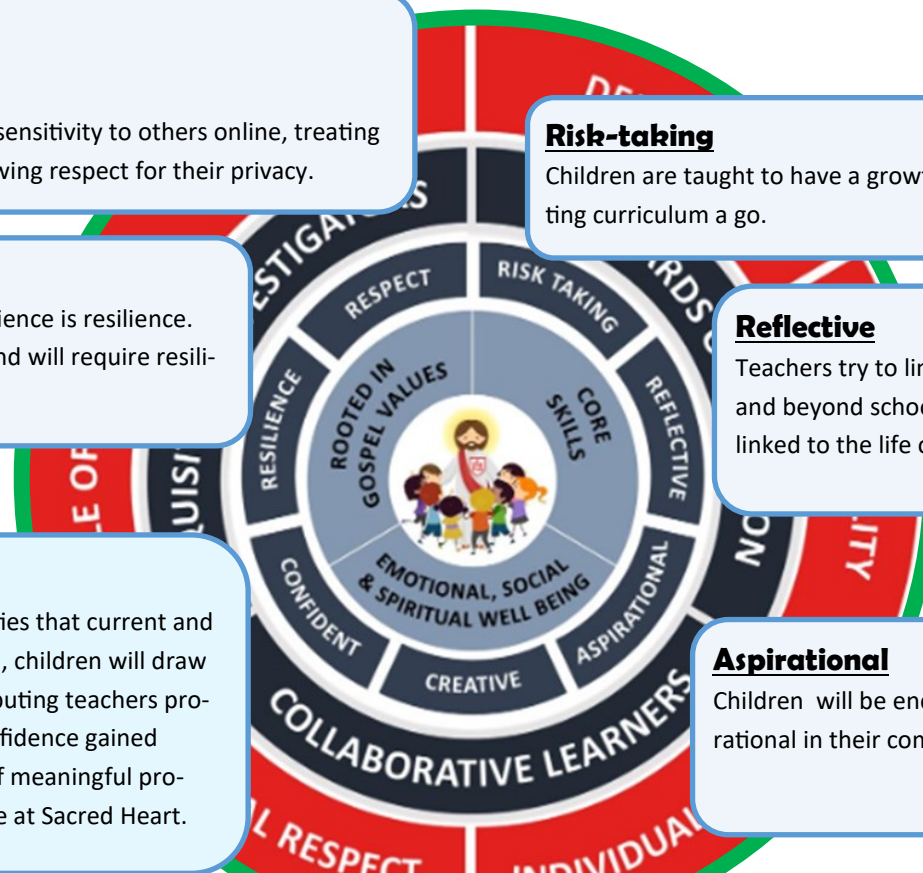
Aspirational

Children will be encouraged to be aspirational in their computing learning .

Creative

Children have choice over how they tackle a task or project, and sometimes even over the task or project itself. Many computing projects can be constructed or adapted to allow plenty of scope for individual creativity.

Rooted in Gospel Values

The Gospel Values underpin all that we do at Sacred Heart and with cross curricula teaching. We teach the skills to discuss and wonder at what Jesus has told us and the actions we should take

Core Skills

Children should be actively engaged in their learning – typically this will be doing something on a computer, but it could also be taking part in a

discussion or an activity away from the computer, such as role-play to illustrate how packets of data travel across the internet.

Emotional, Social and Spiritual Wellbeing

Children are always taught to use technology safely and respectfully, keeping personal information private and identify where to go for help and support when they have concerns about content or contact onthe
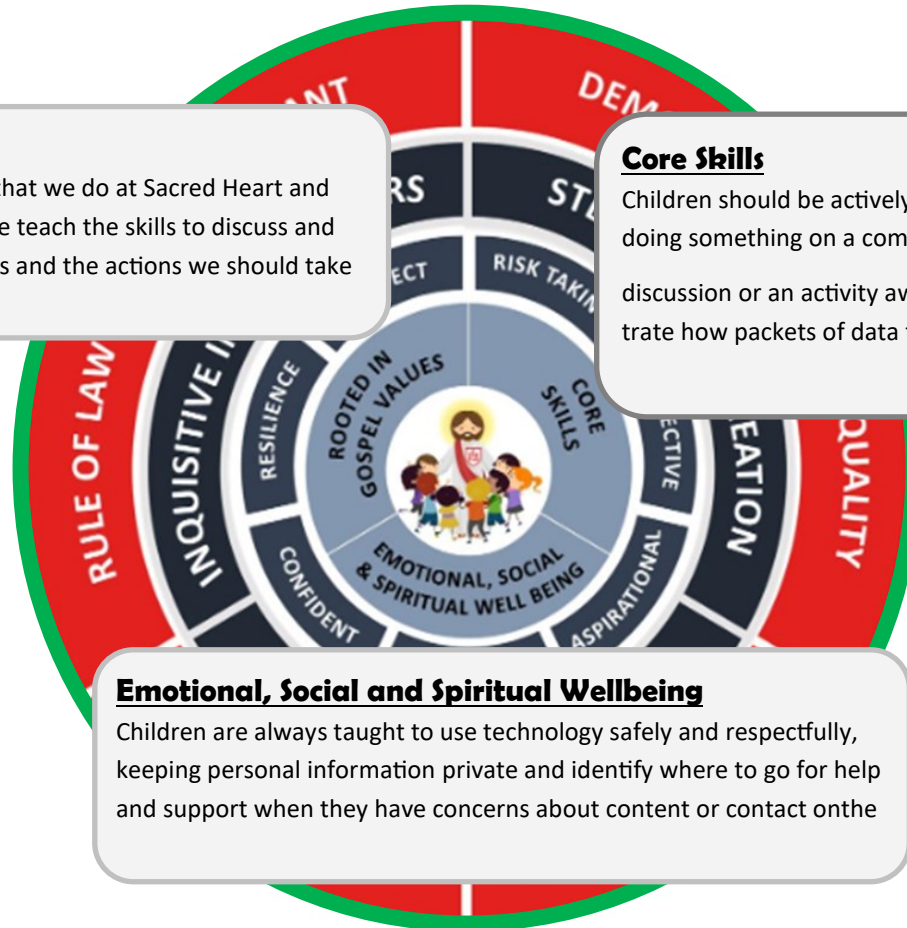
At Sacred Heart the Computing curriculum is fully inclusive to every child.

We encourage the teachers to use Computing across the curriculum, as well as through an explicit 1 hour lesson each week. We teach through the 'Rising stars' scheme 'Switched on Computing' to ensure that we are covering all aims of the National Curriculum; understanding and applying the fundamental principles of computer science; having practical experience of writing computer programs to solve problems; evaluating information technology; and becoming responsible and confident users of information and communication technology.

Intent— We aim to...

Develop skills so the pupils can leave primary school as confident, capable and creative users of digital technology .

Develop a secure understanding of the fundamental principles of computer science.

Teach the children how to be safe and responsible users of digital technology.

Provide coverage of the three inter-related aspects of computing:

- Computer Science
- Information technology
- Digital literacy.

Build upon children's previous learning and experience to ensure consistent progression.

Implementation — How we will achieve our aims...

Consistent & systematic approach

Computing at Sacred Heart is taught through the scheme 'Switched on Computing'. This ensures that there is a consistent and systematic approach taken towards teaching Computing, but also ensures the children are building upon previous learning that has taken place.
We also have e-safety lessons, provided by Rising stars, that the teacher deliver to their children once a term.

Strong teaching

All children will have Quality First Teaching in Computing. When necessary, teachers understand how to differentiate the tasks or adapt the level of support provided to support those children with SEND.
Through the use of the Rising Stars scheme, children are exposed to a demanding and varied computing curriculum.

Vocab and Retrieval

Switched on Computing recognises the 'spiral' nature of progression within computing: new knowledge, skills and understanding within each of the strands of the subject build on what's gone before. There will be opportunities built into each session for the children to 'retrieve' their prior knowledge, so they can apply it to their new learning.
Knowledge organisers will be introduced, showing new vocabulary, prior knowledge and new learning that will take place.

Enrichment

At Sacred Heart, children will be provided with opportunities to develop their computing skills across the curriculum.

In addition, key stage 2 children are invited to join in with 'Computing club' which is run by an outside agency, 'Computer Xplorers'.

Impact — How we will know we have been successful...

Impact

We aim for the impact of this approach to teaching Computing to be seen across the school, as the profile of the subject is raised. There will be visible progression of skills and knowledge throughout the year, across the year groups and across the key stages.

Switched On Computing offers many ways to track the impact of computing lessons on pupils' learning. Each unit includes a comprehensive list of differentiated learning outcomes, so the teachers can check where pupils' work fits with a set of age-related expectations.

There are also a set of multiple-choice questions for each unit, encouraging the recall and application of what pupils have learnt.

Teachers will assess children's progress and achievement each week against the learning objective for that session, and will formally assess the children's progress and achievement at the end of each unit.