

Sacred Heart R.C. Primary School

The Nature of the new Computing Curriculum:

The Primary Computing Curriculum will be replacing the existing ICT Curriculum in September 2014. This represents change, challenge and opportunity for all pupils at Sacred Heart Primary School. In response to the changes, we have reviewed and evaluated our current ICT practice and have been able to offer a new and exciting curriculum which reflects the rich technological world in which we now live.

Our Computing Curriculum is concerned with how computers and their systems work, offering pupils a chance to enhance their creativity and computational thinking.

The New Computing Curriculum has been split into three parts (which can be seen from the Curriculum map):

- Computer Science
- Information Technology
- Digital Literacy

We will provide a broad, relevant and stimulating education for children by:

- Providing a challenging and up to date curriculum embedding core skills which are relevant to the modern technology user
- Using new and exciting software and resources to engage all learners
- Delivering a structured E-safety Curriculum (every half term) to the appropriate age range
- Computing incorporated appropriately in all lessons
- Providing a variety of stimulating experiences through topic work; including the use of information communication technology in humanities, arts and sports

We will provide an environment that is welcoming, secure and richly stimulating by:

- Using the school's website to showcase outstanding work created in computing sessions.
- Providing displays to inform children, celebrate their work and enhance their work places. Some will be permanent, others changed termly.
- Using the digital photo frames and life channel to celebrate computing work
- Regular photographs taken to document use of computing uploaded onto the Buffalo
- Having a named Health and Safety Governor and staff, member who make termly checks
- Use Wigan support to aid effective running of ICT in school

We will foster independent learning with equal opportunity by:

- Providing adequate, labelled and accessible resources
- Offering provision of differentiated and open ended tasks
- Using praise and rewards to celebrate independent work
- Adhering to code of practice for SEN
- The use of a range of groupings including ability, single sex, friendship etc.
- Provision of termly curriculum information
- Purchasing resources that develop positive attitude to race, sex, culture and gender
- Following the school marking policy

We will encourage effective partnerships with parents, Parish and wider community by:

- Use of annual written reports and twice yearly parents meetings
- Using the school website to inform, welcome and include
- Using the Life channel before assemblies to inform parents
- Keeping parents / carers informed of current achievements using the school newsletter

Current situation in our school

Hardware and access

Each class teacher has a laptop as a planning and teaching tool, which runs the smartboard installed in every classroom. Each teacher also has access to an android tablet, which we are currently piloting in school. Tablets were purchased to assist with planning, filing, researching, communicating with peers and use of a shared calendar. Other ICT equipment is stored currently between Y4 classroom and the Humanities / ICT resource cupboard in Y5. This includes beebots, modelling equipment, flip cameras, voiced recorders, lego robotic equipment etc. Rechargeable batteries are also stored in Y4 and charging batteries in advance of use is the responsibility of the individual user. In addition, each classroom is equipped with daily use of a group set of laptops and a class digital camera. Whole school resources (laptops) are housed in a central and secure location in school. During 2013/2014 the pupil laptops were evaluated and necessary replacements were made.

Computing is integrated into every subject area. Discrete Computing is also taught in KS1 and KS2 inline with areas identified by the Computing co-ordinator, such as the coding element of the new curriculum. Parents receive information on coverage through curriculum information each term. Each lesson incorporates computing which may be predominantly through teacher demonstration on smartboard in shared sessions but independent computing is also incorporated into Literacy and Numeracy lessons, as each class has these facilities.

Resources

Suitable software to deliver the revised curriculum have been purchased (July 2014), updated and organised on computers to allow easy access for all teachers and learners in Autumn 2014. We have purchased the Purple Mash software, which allows children to access creative writing tools / artistic tools in school and also at home, we have also decided to use Purple Mash to deliver the coding elements of the new curriculum. To support the teaching of Maths at Sacred Heart we purchased the online mymaths programme, which allows teachers to set group work, booster sessions and also set homework. We have a large amount of beebot resources, which are used to deliver the control elements to KS1. After evaluating the resources available to deliver Computing a lack of resources to deliver control to KS2 pupils was detected. With this in mind, we have invested in a group set of Lego Robotics for use in KS2. All staff have received staff meetings on resources available and use. Computing co-ordinator will review resources annually to keep an up to date appropriate bank of resources.

Planning

A specialist approach to the Computing Curriculum will be developed over 2014 / 2015. The more advanced areas of the new curriculum will be delivered by specific,

skilled individuals to ensure quality and continuity for all pupils. EYFS / KS1 teachers will deliver all elements of Computing to their classes (as not too complex).

In KS2, coding will be taught as a standalone subject by ICT Technician, Mr Connolly. Control will be taught during humanities sessions, by the Computing coordinator. Each pupil will have the opportunity to create a topic themed piece of Lego robotics throughout the school year.

The Information Technology and Digital Literacy elements will be integrated into all subject areas and plans use revised skills/objectives for each year group. Short term plans are in line with planning policy and tracked on planning and assessment grids to ensure coverage of all areas of Computing. This is the responsibility of class teachers and KS2 teachers who will need to communicate effectively, due to the nature of topic rotations.

Esafety sessions are delivered to all year group on the same day, each half term, creating a real buzz and sense of unity across the whole school. The scheme has been devised by Common Sense Media and provides exciting and relevant Esafety objectives for pupils ranging from FS to Y6.

Assessment

Staff will be expected to categorise children into three attainment levels within a variety of Computing areas – Emerging / Expected / Exceeded. Staff should use objectives from Medium term planning sheets to make this judgement. Staff should collect evidence from one child within each attainment area, to produce a portfolio of assessment. Attainment grids to be passed on to next year group to inform next teacher of children's progress and attainment. Use of cameras to record use of ICT is expected of each teacher and children should save work to central 'w' drive to organise and centralise evidence.

Conditions of ICT use

Staff laptops:

- Computing co-ordinator & Computing technician hold all information regarding which laptops have been issued and serial numbers. The Computing co-ordinator ensures all staff understand responsibilities of use
- Teaching staff on receiving a laptop to sign an agreement logging the serial number and stating appropriate use. This includes not allowing children access to the laptop and reporting any problems directly to the Computing co-ordinator NOT attempting to make any repairs themselves
- Breach of agreement results in reporting to governors and the teacher being held accountable
- On joining the school staff sign and agree our 'acceptable use' document that includes appropriate use of the internet. These are stored confidentially with the Head teacher.
- After use, before leaving school the teacher has the responsibility of locking away his/her laptop. This may be a secure locked cupboard within the classroom or in the Head teachers office that is locked securely
- Staff understand at no point do they leave their laptop unattended in vehicles

Laptop/computer use by children

- Both children and parents are given information on acceptable use of ICT at our school and sign a protocol document as they join our school
- Staff to also give regular reminders to the children about acceptable and appropriate use
- If pupils breach the conditions then appropriate disciplinary action is taken depending on the severity and parents may be contacted.

- Damaged or redundant ICT equipment is disposed of following Wigan council guidelines

Internet

- The school and governing body agreed conditions for internet use. These rules are made available to all staff, pupils and parents on entering our school and used to form an agreement.
- Staff follow guidelines and explain/repeat conditions to pupils at intervals during the year
- Conditions for internet use are displayed in every classroom
- Any breach of conditions will result in temporary or permanent withdrawal of access
- Staff understand they do not use personal email accounts at school
- The school uses Securos to protect and check all computers which additionally provides monitoring reports. The Computing Technician will take the role of accessing the monitoring reports and reporting to the Head teacher.
- The school makes use of Wigan LA internet controls to ensure access is controlled and appropriate
- Children are directed to sites reviewed and evaluated prior to use and often those that are recognised providers

Other ICT resources/software

- Cameras have been issued to each class teacher and they have signed on receiving them. Similar to the laptop agreement staff are aware that they have a responsibility for the security of the camera and it too must be locked away before leaving school.
- No unlicensed software is installed and it is understood never will be. Wigan support on rebuilding computers and installing new computers verified licences before installing
- Licences are stored in Computing co-ordinators file and checked when necessary

Website

- It is available to all and the Head teacher monitors the content of the website
- Each class teacher is responsible for uploading their own Curriculum content directly to the site
- Any children who have photographs on the school website must have had consent forms signed
- Information on the website includes no confidential data

Data security

- Data contained on SIMS for use by the administrative staff and head teacher is backed up frequently
- Laptops are encrypted to ensure any personal information stored on staff laptops is secure
- Any unnecessary data is being removed and stored in a secure location (i.e. external hard drive in locked cupboard in head teacher's office)
- Staff have been informed at staff meetings about the dangers with pen drives and no longer use them to store any personal information. Use of pen drives has been eradicated
- Rooms where data is stored is closely controlled and locked when the head/admin staff are not using the office

- All Computing equipment has been security marked and details are held in school inventory
- Paper data is stored securely and staff are now minimising the amount of paper data with use of pupils names. Any paper data is shredded when no longer required
- The head teacher reports any loss or theft using the appropriate guidelines from the council's data protection officer

Updated: September 2017

Next review: September 2019

