

## Holland Junior School

### Computing Policy

Date Reviewed: October 2025

Date for next review: October 2027

#### Principle Academy Vision

We put children first, pioneering excellence and championing each and every child.

#### School Vision

At Holland Junior School we are a happy, friendly and caring school at the heart of our community. Hand in hand with our families, we have high expectations which nurture the successes, growth and happiness of every child. Children will leave our school with lasting memories and the skills to blossom in their future.

#### Aims

The school's aims are to:

- Provide a broad, balanced, challenging and enjoyable curriculum for all pupils.
- Develop pupil's computational thinking skills that will benefit them throughout their lives.
- Meet the requirements of the national curriculum programme of study for Computing at Key Stage 2.
- To respond to new developments in technology.
- To equip pupils with the confidence and skills to use digital tools and technologies throughout their lives.
- To enhance and enrich learning in other areas of the curriculum using IT and Computing.
- To develop the understanding of how to use computers and digital tools safely and responsibly.

The National Curriculum for Computing aims to ensure that all pupils:

- Can understand and apply the fundamental principles of computer science, including logic, algorithms, data representation, and communication.
- Can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems.
- Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
- Are responsible, competent, confident and creative users of information and communication technology.

## **Rationale**

With technology being such a widely-used tool in today's society, Computing has become more prominent than ever before. Therefore, at The Pioneer Academy, we incorporate Computing across the curriculum. We aim to equip the children with up-to-date and informative digital knowledge.

At the forefront of all Computing lessons is E-Safety. We teach the children to use technology safely and respectfully, including what steps to take if they are unsure about online content. Whilst the children are being taught to use technology purposefully, they are encouraged to apply the use of logical reasoning in order to decode and create digital content.

Throughout their time at Holland Junior School, the children will have the opportunity to create and detect errors within their own algorithms and programmes, as well as use a variety of software to collect, analyse, evaluate and present data and information.

## **Objectives**

### **By the end of Key Stage 2 pupils should be taught to:**

- Design and write programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.
- Use sequence, selection, and repetition in programs; work with variables and various forms of input and output; generate appropriate inputs and predicted outputs to test programs.
- Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs.
- Understand computer networks including the internet; how they can provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration.
- Describe how internet search engines find and store data; use search engines effectively; be discerning in evaluating digital content; respect individuals and intellectual property; use technology responsibly, securely and safely.
- Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.
- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

## **Resources and access**

The school acknowledges the need to continually maintain, update and develop its resources and to make progress towards consistent, compatible computer systems by investing in resources that will effectively deliver the objectives of the National Curriculum and support the use of IT, computer science and digital literacy across the school. Teachers are required to inform the Computing subject leader of any faults as soon as they are noticed. Resources if not classroom based are located in the laptop iPad trollies. Computing network infrastructure and equipment has been sited so that:

- Every classroom from y3 to y6 has a computer connected to the school network and a Clevertouch board with sound, DVD and video facilities.
- Internet access is available in all classrooms.
- Each class has a timetabled Computing slot one session per week.
- Chromebooks and iPads are available for use throughout the school day as part of Computing lessons and for cross-curricular use.

- VR headsets, BeeBots and Micro-Bits are available to support specific areas of computing as well as supporting in other curriculum areas.
- Pupils may use IT and Computing independently, in pairs, alongside a TA or in a group with a teacher.
- The school has access to a Computing technician from the central team who is in school as and when required.
- A governor will be invited to take a particular interest in Computing in the school.

### **Planning**

The school will be using the NCCE Computing Curriculum, a whole-school scheme of work for Year 3 to Year 6 pupils. NCCE fully meets the objectives of the National Curriculum for Computing and allows for clear progression in Computing. Pupil progress towards these objectives will be recorded by the class teacher and analysed by the Computing Subject Lead in regular performance management meetings.

A minority of children will have particular teaching and learning requirements which go beyond the provision for that age range and if not addressed, could create barriers to learning. This could include G&T children, those with SEN or those who have EAL. Teachers must take account of these requirements and plan, where necessary, to support individuals or groups of pupils to enable them to participate effectively in the curriculum and assessment activities. During any teaching activities, teachers should bear in mind that special arrangements could be made available to support individual pupils. This is in accordance with the school inclusion policy. These children should be identified and discussed at pupil progress meetings to ensure that appropriate provisions and/or interventions are effected.

### **Assessment and record keeping (also see assessment policy)**

Regular assessment of progress is made through observations and evidence. Key objectives to be assessed are taken from the National Curriculum to assess Computing each ½ term. Assessing Computing is an integral part of teaching & learning and key to good practice.

Assessment should be process orientated - reviewing the way that techniques and skills are applied purposefully by pupils to demonstrate their understanding of Computing concepts. As assessment is part of the learning process, it is essential that pupils are closely involved. Assessment can be broken down into;

- Formative assessments are carried out during and following short focused tasks and activities. They provide pupils and teaching staff the opportunity to reflect on their learning in the context of the agreed success criteria. This feeds into planning for the next lesson or activity.
- Summative assessment should review pupils' ability and provide a best fit 'level'. Independent tasks provide a number of opportunities and scope for pupils to demonstrate their capability throughout the term. There should be an opportunity for pupil review and identification of next steps. Summative assessment should be recorded for all pupils – showing whether the pupils have met, exceeded or not achieved the learning objectives.

We assess the children's work in Computing by making informal judgments as we observe the children during lessons. Once the children complete a unit of work, we make a summary judgment of the work for each pupil as to whether they have yet to obtain, obtained or exceeded the expectations of the unit.

We record the results in our assessment files and we use these to plan future work, provide the basis for progress and to communicate with the pupil's future class teacher(s). The children's work is saved on the school network. Other work may be printed and filed within the subject from which the task was set.

### **Pupils with special educational needs (see also SEND policy)**

We believe that all children have the right to access IT and Computing. In order to ensure that children with special educational needs achieve to the best of their ability, it may be necessary to adapt the delivery of the Computing curriculum for some pupils.

We teach IT and Computing to all children, whatever their ability. Computing forms part of the national curriculum to provide a broad and balanced education for all children. Through the teaching of Computing we provide opportunities that enable all pupils to make progress. We do this by setting suitable challenges and responding to each child's individual needs. Where appropriate IT can be used to support SEND children on a one to one basis where children receive additional support.

### **Equal opportunities (see also equal opportunities policy)**

We will ensure that all children are provided with the same learning opportunities regardless of social class, gender, culture, race, disability or learning difficulties. As a result, we hope to enable all children to develop positive attitudes towards others. All pupils have equal access to Computing and all staff members follow the equal opportunities policy. Resources for SEND children and gifted & talented will be made available to support and challenge appropriately.

### **The role of the Subject Leader**

There is a Computing subject leader who is responsible for the implementation of the Computing policy across the school. Their role is to:

- Offer help and support to all members of staff (including teaching assistants) in their teaching, planning of Computing across the curriculum.
- Maintain resources and advise staff on the use of digital tools, technologies and resources.
- Monitor the children's progression in Computing, looking at examples of work of different abilities.
- Manage the Computing budget.
- Keep up-to-date with new technological developments and communicate information and developments with colleagues
- Lead staff training on new initiatives.
- Attend appropriate in-service training
- Have enthusiasm for Computing and encourage staff to share this enthusiasm.
- Keep parents and governors informed on the implementation of Computing in the school.
- Liaise with all members of staff on how to reach and improve on agreed targets.

### **The role of the class teacher**

Individual teachers will be responsible for ensuring that pupils in their classes have opportunities for using their knowledge, skills and understanding of Computing across the curriculum.

We set high expectations for our pupils and provide opportunities for all to achieve, including girls and boys, pupils with educational special needs, pupils with disabilities pupils from all social and cultural backgrounds, and those from diverse linguistic backgrounds.

The class teacher's role is a vital role in the development of Computing throughout the school and will ensure continued progression in learning and understanding, and create effective learning environments.

The class teacher will also:

- Secure pupil motivation and engagement.
- Provide equality of opportunity using a range of teaching approaches and techniques.
- Use appropriate assessment techniques and approaches.
- Set suitable targets for learning as outlined in the inclusion policy.
- Maintain up to date assessment records (see policy document).

### **Staff training**

The Computing subject leader will assess and address staff training needs as part of the annual development plan process or in response to individual needs and requests throughout the year.

Individual teachers should attempt to continually develop their own skills and knowledge, identify their own needs and notify the subject leader.

Teachers will be encouraged to use IT and Computing to produce plans, reports, communications and teaching resources.

### **Health and safety (see also health and safety policy)**

The school is aware of the health and safety issues involved in children's use of IT and Computing.

All fixed electrical appliances in school are tested by an external contractor very five years and all portable electrical equipment in school is tested by an external contractor every two year.

It is advised that staff should not bring their own electrical equipment in to school but, if this is necessary, equipment must be PAT tested before being used in school. This also applies to any equipment brought in to school by, for example, visitors running workshops, activities, etc. and it is the responsibility of the member of staff organising the workshop, etc. to advise those people.

All staff should visually check electrical equipment before they use it and take any damaged equipment out of use. Damaged equipment should then be reported to the IT Department, School Business Manager or head teacher who will arrange for repair or disposal.

In addition:

- Children should not put plugs into sockets or switch the sockets on.
- Trailing leads should be made safe behind the equipment.
- Liquids must not be taken near the computers.
- Magnets must be kept away from all equipment.
- Safety guidelines in relation to IWBs will be displayed in the classrooms.
- E-safety guidelines will be set out in the e-safety policy & Acceptable Use Guidelines.

### **Security**

We take security very seriously. As such:

- The Computing technician will be responsible for regularly updating anti-virus software.
- Use of IT and Computing will be in line with the school's 'acceptable use policy'. All staff, volunteers and

children must sign a copy of the schools AUP.

- Parents will be made aware of the 'acceptable use policy' at school entry and KS2.
- All pupils and parents will be aware of the school rules for responsible use of IT and Computing and the internet and will understand the consequence of any misuse.
- The agreed rules for safe and responsible use of IT and Computing and the internet will be displayed in all Computing areas.

### **Cross curricular links**

As a staff we are all aware that IT and computing skills should be developed through core and foundation subjects. Where appropriate, IT and Computing should be incorporated into schemes of work for all subjects. IT and Computing should be used to support learning in other subjects as well as developing computing knowledge, skills and understanding.

### **Parental involvement**

Parents are encouraged to support the implementation of IT and Computing where possible by encouraging use of IT and computing skills at home for pleasure, through home-learning tasks and use of the school website. Parents will be made aware of issues surrounding e-safety and encouraged to promote this at home.