



## Computing Policy

October 2022 by Alastair Ingham

## Intent

At Norwich Road Academy, we believe that Computing and the use of ICT is central to the education of all children. We aim to give each pupil the opportunity to apply and develop their technological understanding and skills across a wide range of situations and tasks. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems which gives the children the opportunity to connect their learning. Pupils are encouraged to develop a confident and safe approach to Computing and the use of ICT, with the understanding of the capabilities and flexibility of their resources. With the knowledge that Computing and ICT will undoubtedly continue to form a major part in the children's life at home, in further education and places of work, we ensure the Computing and ICT experiences and abilities that the children are equipped with at Norwich Road are effective and transferrable life skills.

## Objectives

The Computing curriculum at Norwich Road Academy aims for every child to be able to:

- Understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.
- Analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems.
- Evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
- Be responsible, competent, confident and creative users of information and communication technology.

## Implementation

Teaching Computing at Norwich Road should be engaging and informative. It should be vocabulary focussed and follow the Norwich Road teaching mantra. We need to promote online safety and discuss the risks of the online world as well as the positives. Children should know what to do if they see something online that worries them and how to report it. Teachers should pitch their lesson at the appropriate level ensuring there is room for differentiation to cater for the more and less able.

## Impact

Throughout the school teachers will assess whether children are working towards/working at/above the expected level for their age. This will need to be completed after each unit of work. The judgement will be purely based on teacher assessment.

## Scheme

At Norwich Road Academy, we follow the long term planning provided by the National Centre for Computing Education ([www.teachcomputing.org](http://www.teachcomputing.org)). Some of the topics covered are- Computing systems, Data and information and programming. Teachers are signed up to the Teachcomputing.org

website to ensure teaching is consistent across the school and teachers feel confident to teach Computing lessons.

### Resources

We have access to a variety of different devices for computing lessons – including laptops and iPads. All teachers have access to an interactive smart board which can be used effectively teaching all lessons across the curriculum. Teachers also have an iPad each which can support learning through apps and projecting children's work onto the smartboard. All Teachers have class desktops and a Teacher laptop which both can be linked to the interactive smartboard. The hall has a projector which is linked to the school network. In school, we also have a green screen which can be used to give children more of an active role in their learning. This can be used to support cross curricular links to many subjects but in particular: Science, Geography, History and English. The academy is seeking to develop the way that Microsoft 365 can be utilised to facilitate blended learning. This is through the use of Teams as a platform for setting work, sharing resources and as an assessment tool for teachers.

### Differentiation/SEN

As each teacher is aware of the needs of individuals in their class, they are responsible for making sure each lesson is suitable and accessible to all, making adaptations where necessary so that all can participate in lessons.

### British Values within Computing

British Values within Computing Children at Norwich Road Academy demonstrate the following values whilst learning about Computing by:

#### Democracy

- Listening to everyone's ideas in order to form a majority
- Working as part of a team and collaborating to use computing devices effectively.

#### Rule of Law

- Developing knowledge of lawful computing behaviours
- Demonstrating respect for computing laws. Individual Liberty
- Taking responsibility for our own computing behaviours
- Challenging stereotypes and bias
- Exercising rights and personal freedoms safely through knowledge of E-safety.

## Respect and Tolerance

- Showing respect for other cultures when undertaking research using computing devices.
- Providing opportunities for pupils of all backgrounds to achieve in computing.

## Online Safety

Internet access is planned to enrich and extend learning activities across the curriculum. However, we have acknowledged the need to ensure that all pupils are responsible and safe users of the Internet and other communication technologies both in school and outside. An Online Safety policy has thus been drawn up to protect all parties. To further ensure the safety of the children we will teach each class the rights and responsibilities of using the Internet. A link on the school website homepage gives parents more information on e-Safety. Teachers also promote online safety through messages to parents on Class Dojo. There is also an Online Safety display outside which both parents and children can see clearly.

## Home School Links

Norwich Road Academy promotes Home School Links where we can. The internet is a valuable tool in supporting this. Our school website promotes the school and children's achievements, as well as providing information and communication between the school, parents and the local community. Twitter is used to keep parents and potential parents up to date and to share children's achievements in a more accessible way. The academy also has a Facebook page. Texts and/or emails and Class Dojo are sent to parents as reminders or to inform as well as sending letters home with children.