



Upton Infant School's Computer Science Curriculum Rationale

Brilliant computer scientists...

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- 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

Computer Science Curriculum – Internet Safety

Reception

Year One

Year Two

Intent

Brilliant Computer Scientists in Reception will know how to keep themselves safe online when interacting with online digital content at home and in school.

Brilliant Computer Scientists in Year One will know how to use the internet safely and are aware of what information should be kept private and what to do if concerns are raised.

Brilliant Computer Scientists in Year Two will know how to use a wide range of technology to understand how to keep safe online and can confidently talk about how to use information technology beyond school.

Planning considerations for teachers

- Have online resources: Digiducks Big Decision been considered?
- Are children supervised when using online content?
- Have e-resources been carefully selected for suitable content?
- Is the school internet charter shared with the class?

- Is planning for E-safety taught in the Spring Term to support 'national' E-safety day?
- Have online resources: Smartie Penguin been considered?
- Do children know how to use technology safely and respectfully?
- Do the children know what devices can be used to search the Internet?
- Do children understand what 'personal information' is?
- Do children understand how to consider other people's feelings on the Internet?
- Is the school internet charter shared with the class?

- Is planning for E-safety taught in the Spring Term to support 'national' E-safety day?
- Have online resources: Hector the Dolphin been considered?
- Do children understand how to keep personal information private?
- Do children know where to go for help and support when they have concerns about content?
- Do the children recognise that a variety of devices can be used to connect a number of people?
- Is the school internet charter shared with the class?

Skills and Knowledge

Brilliant computer scientists...

- Click on 'Hector' the dolphin when unsure about content and tell a trusted adult.
- Know what a 'popup' is.
- Can recognise a 'popup' and know what to do.
- Know what apps are safe for them to use.

Brilliant computer scientists...

- Click on 'Hector' the dolphin when unsure about content and tell a trusted adult.
- Know about the year group password and that it is used to log in to school software.
- Follow the school internet charter when using school software
- Understand the importance of following the school internet charter.
- Know how to use technology safely and respectfully?
- Know a range of devices that can be used to search the internet
- Know what personal information is.
- Know the effects their 'words' have on other people.

Brilliant computer scientists...

- Click on 'Hector' the dolphin when unsure about content and tell a trusted adult.
- Can independently use the year group password to log in to school software. Understand the importance of following the school internet charter.
- Understand when it is appropriate to share their personal information and who to share it with.
- Know how to use online software appropriately.
- Know what 'cyberbullying' is.
- Seek support from trusted adults when needed.

Next steps:

- Children understand that passwords keep online information safe.
- Children know passwords must be kept strong and secure.

Our promise to make computing brilliant

Internet Safety Day – Police Visitor and talk for parents
Class discussion of Online safety – CEOP video 'Lee and Kim' to be shared

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