

For Primary Schools

Y1-Y6

iCompute
Primary Computing



ES

Progression

in eSafety

ES Progression in Primary Computing

This guide is intended to support teachers using iCompute's Primary Computing Scheme of Work for pupil progression in the eSafety (ES) strand of the National Curriculum for Computing for Key Stage 1 and Key Stage 2.

It forms part of a comprehensive Computing Assessment Toolkit for Primary Computing covering all strands of the National Curriculum:

- ✔ Computer Science
- ✔ Digital Literacy (incl. eSafety)
- ✔ Information Technology

eSafety Progression

To demonstrate good practice in developing learning across the curriculum, this guide has been arranged into six sections: Year 1 to Year 6

This guide shows how expectations for children's ES capability can progress throughout Year 1 to Year 6.

It is a guide only and should be adjusted to suit your school setting and the capabilities and competencies of your pupils.

It does not cover progression in Computer Science, Information Technology and Digital Literacy; which are detailed separately in the Assessment Toolkit.

Declarative and Procedural Knowledge

For progress in computing to take place, pupils need to be taught components of learning and acquire declarative and procedural knowledge.

At iCompute, we think of knowledge components in terms of **know that... understand that... know how...**

Procedural Knowledge refers to the knowledge of "how to" perform a specific skill or task.

Declarative Knowledge involves "knowing that" and "understanding that".

eSafety - Knowledge Components

Working Towards

Meeting

Greater Depth

Year 1

Declarative Knowledge

Pupils understand/know that..

- some information is personal (E.g. name & address)
- personal information should only be given to trusted people but sometimes trust the wrong people

Procedural Knowledge

Pupils know how to...

- tell you why I do or don't trust someone, but sometimes get it wrong

Declarative Knowledge

Pupils understand/know that..

- personal information should only be given to people I trust

Procedural Knowledge

Pupils know how to...

- give a few examples of information that is personal (E.g. hobbies)
- usually point out what it is about someone that makes me not trust them

Declarative Knowledge

Pupils understand/know that..

- a wider range of information is personal (E.g. regular attendance at a specific place)

Procedural Knowledge

Pupils know how to...

- give examples of a variety of characteristics of trustworthy people and tell you why I think the way I do

eSafety - Knowledge Components

Working Towards

Meeting

Greater Depth

Year 2

Declarative Knowledge

Pupils understand/know that..

- personal information should only be given to trusted people

Procedural Knowledge

Pupils know how to...

- talk about the importance of staying safe online
- explain why I should not use email without permission

Declarative Knowledge

Pupils understand/know that..

- I need to ask permission before using email clients or apps
- there are risks with sending and receiving email

Procedural Knowledge

Pupils know how to...

- give lots of examples of what information is private
- talk about some of the ways to use computers safely
- talk about some of the dangers of sending and receiving emails

Declarative Knowledge

Pupils understand/know that..

- a wider range of information is personal (E.g. regular attendance at a specific place)
- I need to act responsibly with technology
- some things online might be upsetting

Procedural Knowledge

Pupils know how to...

- use computers and devices responsibly
- tell you some of the ways to report things I see or hear online that makes me uncomfortable, worried or upset

eSafety - Knowledge Components

Working Towards

Meeting

Greater Depth

Year 3

Declarative Knowledge

Pupils understand/know that..

- people can talk to each other using technology
- there are some risks to being online

Procedural Knowledge

Pupils know how to...

- talk about some ways keep myself safe when using ICT
- use ICT to communicate, talk about some of the risks and try to keep safe

Declarative Knowledge

Pupils understand/know that..

- passwords protect technology
- there are adverts online
- I need to be careful when online

Procedural Knowledge

Pupils know how to...

- tell you why we need passwords and that they should be kept safe
- follow some e-safety rules
- point out an online advert
- choose information from a different websites carefully
- explain how to avoid adverts tricking me

Declarative Knowledge

Pupils understand/know that..

- information found online might not always be reliable or accurate

Procedural Knowledge

Pupils know how to...

- give examples of right and wrong things to do using technology and when online
- tell you why information I find online needs to be checked
- check information I find online

eSafety - Knowledge Components

Working Towards

Meeting

Greater Depth

Year 4

Declarative Knowledge

Pupils understand/know that..

- not all information provided on the world wide web is correct
- I should get permission for sharing some things online

Procedural Knowledge

Pupils know how to...

- talk about different ways keep myself using technology and when online

Declarative Knowledge

Pupils understand/know that..

- passwords should be kept safe
- technology can be used to talk to people
- there are risks with talking to people online
- not all information found online is reliable or accurate
- I need permission to use certain technology, apps and things online

Procedural Knowledge

Pupils know how to...

- tell you about why I should use secure passwords and why I need to keep them private
- use ICT to communicate, talk about some of the risks and act to avoid them
- tell you why information found online needs to be checked
- give examples about what types of things online I might need permission to use

Declarative Knowledge

Pupils understand/know that..

- you sometimes need to log in to apps and devices
- you can search for information online
- not all information online is reliable or accurate
- content found online is protected by copyright and you might need permission to use it

Procedural Knowledge

Pupils know how to...

- use safety measures when using technology and working online (E.g. logging out of devices after use)
- use searches to find information I'm looking for and check if its useful and believable
- check if the information I find online is right
- tell you what copyright means

eSafety - Knowledge Components

Working Towards

Meeting

Greater Depth

Year 5

Declarative Knowledge

Pupils understand/know that..

- you can search online using a search engine
- some results a search engine returns might be adverts
- not all information found online is accurate or reliable
- people can be mean and nasty online

Procedural Knowledge

Pupils know how to...

- use some safety measures when using technology and working online (E.g. logging out)
- use searches to find information I'm looking for and check if its useful and believable
- give examples of good and bad online behaviour
- give examples of different types of cyberbullying

Declarative Knowledge

Pupils understand/know that..

- some information can be personal
- some information on the internet may be misleading or inaccurate
- I need to be careful searching online
- I need to use keywords in online searches to improve the results a search engine returns

Procedural Knowledge

Pupils know how to...

- give examples of personal information
- tell you why personal information should only be given to trusted sources
- use keywords when searching online
- check information I find online for accuracy and reliability
- use search criteria efficiently find information online and check if its accurate and reliable

Declarative Knowledge

Pupils understand/know that..

- there are different ways to stay safe using technology and when online
- report inappropriate content I find online
- block people from contacting me online
- What to do if I come across cyberbullying

Procedural Knowledge

Pupils know how to...

- give lots of examples about stay safe using technology and online and how to report anything I'm worried about
- communicate and work effectively and safely online

eSafety - Knowledge Components

Working Towards

Meeting

Greater Depth

Year 6

Declarative Knowledge

Pupils understand/know that..

- people can be bullied online
- passwords protect devices and content
- passwords should not be shared
- you need to be careful when searching online
- keywords can be used to find information online more effectively
- not all information online is reliable or accurate

Procedural Knowledge

Pupils know how to...

- use search criteria efficiently to find information online and check it for accuracy and reliability
- use passwords

Declarative Knowledge

Pupils understand/know that..

- know that there are tools available to report online abuse
- people can be blocked from contacting you online
- information found online needs to be checked
- devices can be locked after a period of time so that other people can't use your device or access your content
- passwords should be made difficult to find out
- people can be bullied online and this is called cyberbullying
- sometimes its better to communicate face-to-face

Procedural Knowledge

Pupils know how to...

- find information online and check it for accuracy and reliability
- talk about the importance of screen locks that protect devices
- create passwords that might be difficult to guess
- make decisions about information sharing on the sites and services I use
- identify situations of harassment or bullying online
- identify situations when it's better to communicate face-to-face rather than to message

Declarative Knowledge

Pupils understand/know that..

- a number of risks associated with work and leisure in a digital society and act to minimise them
- how to create passwords that are hard to guess, yet easy to remember
- how to respond to negativity online

Procedural Knowledge

Pupils know how to...

- talk about specific ways to respond to bullying when I see it
- choose how to respond from options that feel safe and appropriate to me
- talk about when and why it would be appropriate to use online reporting