

**Oldfield Primary School**  
**Computing**  
**Year 1**

Algorithms and programming

1. I can create a series of instructions
2. I can plan a journey

Information technology

1. I can create, store and retrieve digital content
2. I can use a website
3. I can use a camera
4. I can record sound and playback

Digital Literacy

1. I can use technology
2. I can keep personal information private

**Year 2**

Algorithms and Programming

1. I can use a range of instructions (e.g. direction, angles, turns). ☒
2. I can test and amend a set of instructions. ☒
3. I can find errors and amend (debug). ☒
4. I can write a simple program and test it. ☒
5. I can predict what the outcome of a simple program will be (logical reasoning). ☒
6. I understand that algorithms are used on digital devices. ☒
7. I understand that programs require☒precise instructions.

Information Technology

1. I can organise digital content. ☒
2. I can retrieve and manipulate digital content. ☒
3. I can navigate the web to complete simple searches.

Digital Literacy

1. I use technology respectfully. ☒
2. I know where to go for help if I am concerned. ☒
3. I know how technology is used in school and outside of school.

**Year 3**

Algorithms and programming

1. I can create a sequence of instructions,
2. I can write programs that achieve specific goals. ☒
3. I can work with programming applications.

Information technology ☒

1. I can use word processing software.
2. I can design and present information in different ways. ☒
3. I can search for and collect information on the web.
4. I can combine text and graphics.

Digital literacy ☒

1. I know how to use technology responsibly. ☒
2. I know different ways I can get help if I am worried. ☒
3. I understand what is acceptable and unacceptable when using technology.

**Being a Computer User**

1. I understand the need for rules to keep me safe online. ☒
2. I understand that the internet contains fact, fiction and opinion and begin to distinguish between them.  
☒
3. I understand the need for caution when using an internet search for images and I know what to do if I find an unsuitable image. ☒
4. I understand the need to keep personal information and passwords private. ☒

5. I understand that if I make personal information available online it may be seen and used by others.
6. I know how to respond if asked for personal information or feel unsafe about content of a message.
7. I recognise that cyber bullying is unacceptable and will be sanctioned in line with the school's policy.
8. I know what to do if I am worried about cyber bullying.
9. I follow the school's safer internet rules.
10. I can use different search engines, websites and applications.

#### **Year 4**

##### Algorithms and programming

1. I can experiment with variables to control models.
2. I can give an on-screen robot/sprite specific instructions that takes them from A to B.
3. I can make an accurate prediction and explain why I believe something will happen (linked to programming).
4. I can de-bug a program.

##### Information technology

1. I can select and use software to accomplish given goals.
2. I can collect and present data.
3. I can produce and upload a podcast.

##### Digital literacy

1. I recognise acceptable and unacceptable behaviour using technology.

#### **Being a Computer User**

##### Knowledge and understanding

1. I understand the need for rules to keep me safe when exchanging learning and ideas online.
2. I recognise that information on the internet may not be accurate or reliable and may be used for bias, manipulation or persuasion.
3. I understand that the internet contains fact, fiction and opinion and begin to distinguish between them.
4. I use strategies to verify information, e.g. cross-checking.
5. I understand the need for caution when using an internet search for images and what to do if I find an unsuitable image.
6. I understand that copyright exists on most digital images, video and recorded music.
7. I understand the need to keep personal information and passwords private.
8. I understand that if I make personal information available online it may be seen and used by others.
9. I know how to respond if asked for personal information or feel unsafe about content of a message.
10. I recognise that cyberbullying is unacceptable and will be sanctioned in line with the school's policy.

#### **Year 5**

##### Algorithms and programming

1. I can combine sequences of instructions and procedures to turn devices on and off.
2. I can use technology to control an external device.
3. I can design algorithms that use repetition & 2-way selection.

##### Information technology

1. I can analyse information.
2. I can evaluate information.
3. I understand how search results are selected and ranked.
4. I can edit a film.

##### Digital literacy

1. I understand that you have to make choices when using technology and that not everything is true and/or safe.

#### **Being a Safe Computer user**

##### Knowledge and understanding

1. I can discuss the positive and negative impact of the use of ICT in my own life, my friends and family.
2. I understand the potential risk of providing personal information online.

3. I recognise why people may publish content that is not accurate and understand the need to be critical evaluators of content. ☐
4. I understand that some websites and/or pop-ups have commercial interests that may affect the way the information is presented. ☐
5. I recognise the potential risks of using internet communication tools and understand how to minimise those risks (including scams and phishing). ☐
6. I understand that some material on the internet is copyrighted and may not be copied or downloaded.
7. I understand that some messages may be malicious and know how to deal with this. ☐
8. I understand that online environments have security settings, which can be altered, to protect the user.
9. I understand the benefits of developing a 'nickname' for online use. ☐
10. I understand that some malicious adults may use various techniques to make contact and elicit personal information. ☐
11. I know that it is unsafe to arrange to meet unknown people online. ☐
12. I know how to report any suspicions. ☐
13. I understand I should not publish other people's pictures or tag ☐them on the internet without permission. ☐
14. I know that content put online is extremely difficult to remove. ☐
15. I know what to do if I discover something malicious or inappropriate. ☐

### Skills

1. I follow the school's safer internet rules. ☐
2. I can make safe choices about the use of technology. ☐
3. I can use technology in ways, which minimises risk. e.g. responsible use of online discussions, etc. ☐
4. I can create strong passwords and manage them so that they ☐remain strong. ☐
5. I can independently, and with regard for e-safety, select and use ☐appropriate communication tools to solve problems by collaborating and communicating with others within and beyond school. ☐
6. I can competently use the internet as a search tool. ☐
7. I can reference information sources. ☐
8. I can use appropriate strategies for finding, critically evaluating, validating and verifying information. e.g. using different keywords, skim reading to check relevance of information, cross checking with different websites or other non-ICT resources. ☐
9. I can use knowledge of the meaning of different domain names and common website extensions (e.g. .co.uk; .com; .ac; .sch; .org; .gov; .net) to support validation of information. ☐

## **Year 6**

### Algorithms and programming

1. I can design a solution by breaking a problem up. ☐
2. I recognise that different solutions can exist for the same problem. ☐
3. I can use logical reasoning to detect errors in algorithms. ☐
4. I can use selection in programs. ☐
5. I can work with variables. ☐
6. I can explain how an algorithm works. ☐
7. I can explore 'what if' questions by planning different scenarios for controlled devices.

### Information technology ☐

1. I can select, use and combine software on a range of digital devices. ☐
2. I can use a range of technology for a specific project.

### Digital literacy ☐

1. I can discuss the risks of online use of technology. ☐
2. I can identify how to minimise risks. ☐

### **Being a Safe Computer user in Y5 and 6 - Knowledge and understanding**

1. I can discuss the positive and negative impact of the use of ICT in my own life, my friends and family. ☐
2. I understand the potential risk of providing personal information online. ☐
3. I recognise why people may publish content that is not accurate and understand the need to be critical evaluators of content. ☐

4. I understand that some websites and/or pop-ups have commercial interests that may affect the way the information is presented. ☐
5. I recognise the potential risks of using internet communication tools and understand how to minimise those risks (including scams and phishing). ☐
6. I understand that some material on the internet is copyrighted and may not be copied or downloaded.
7. I understand that some messages may be malicious and know how to deal with this. ☐
8. I understand that online environments have security settings, which can be altered, to protect the user.
9. I understand the benefits of developing a 'nickname' for online use. ☐
10. I understand that some malicious adults may use various techniques to make contact and elicit personal information. ☐
11. I know that it is unsafe to arrange to meet unknown people online. ☐
12. I know how to report any suspicions. ☐
13. I understand I should not publish other people's pictures or tag ☐them on the internet without permission. ☐
14. I know that content put online is extremely difficult to remove. ☐
15. I know what to do if I discover something malicious or inappropriate. ☐

### Skills

1. I follow the school's safer internet rules. ☐
2. I can make safe choices about the use of technology. ☐
3. I can use technology in ways, which minimises risk. e.g. ☐responsible use of online discussions, etc. ☐
4. I can create strong passwords and manage them so that they ☐remain strong. ☐
5. I can independently, and with regard for e-safety, select and use ☐appropriate communication tools to solve problems by collaborating and communicating with others within and beyond school. ☐
6. I can competently use the internet as a search tool. ☐
7. I can reference information sources. ☐
8. I can use knowledge of the meaning of different domain names and common website extensions (e.g. .co.uk; .com; .ac; .sch; .org; .gov; .net) to support validation of information. ☐