



Computing Knowledge and Skills Organiser

Year 3, Autumn 1

Topic: Connecting computers

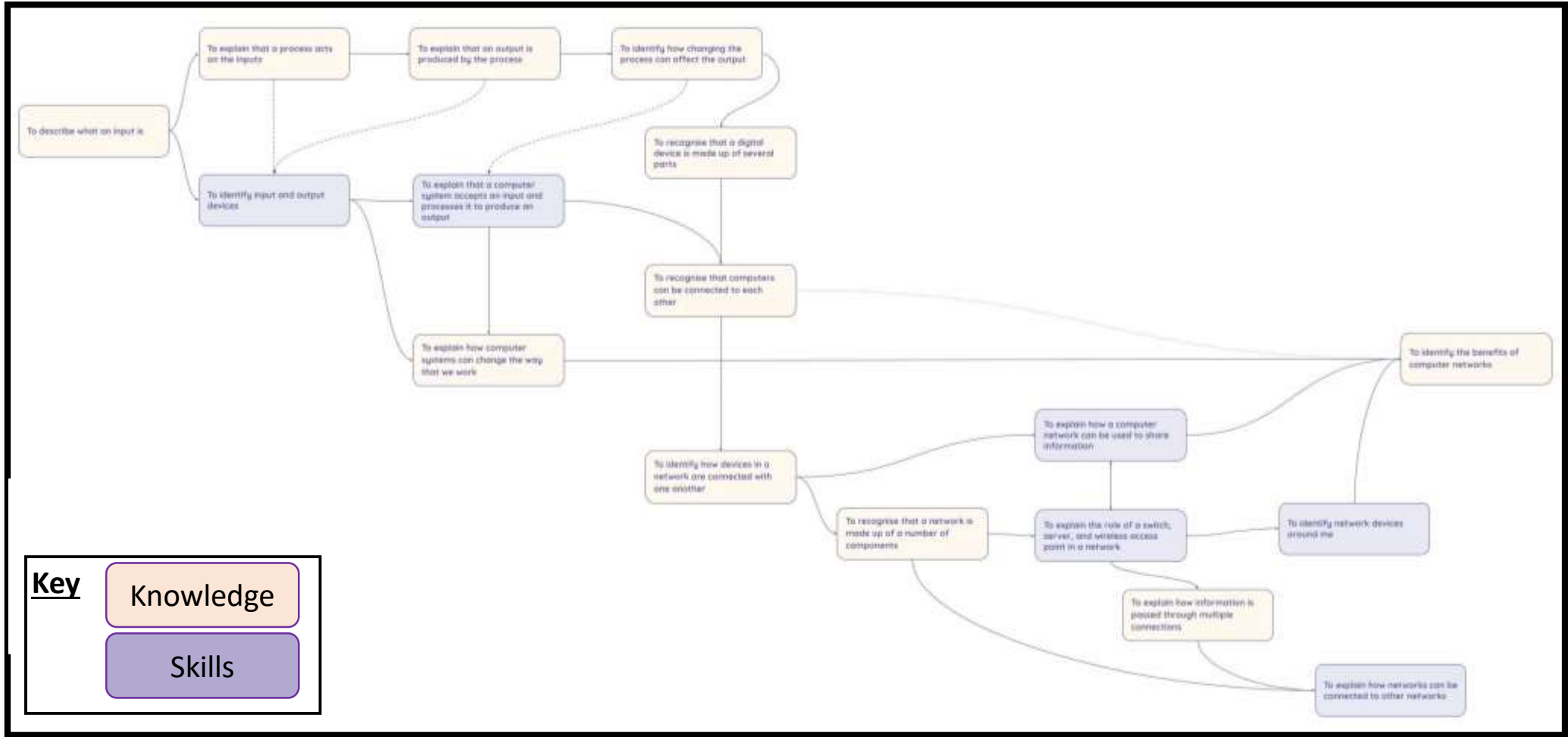
Strands

- Information technology
- Digital literacy
- Computer science
- Online safety



Strand: Information technology

- #### Key Vocabulary
- Program
 - Function
 - Software
 - Hardware
 - Operating system





Computing Knowledge and Skills Organiser

Year 3, Autumn 2

Topic: Stop-frame animations

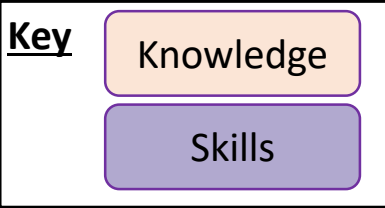
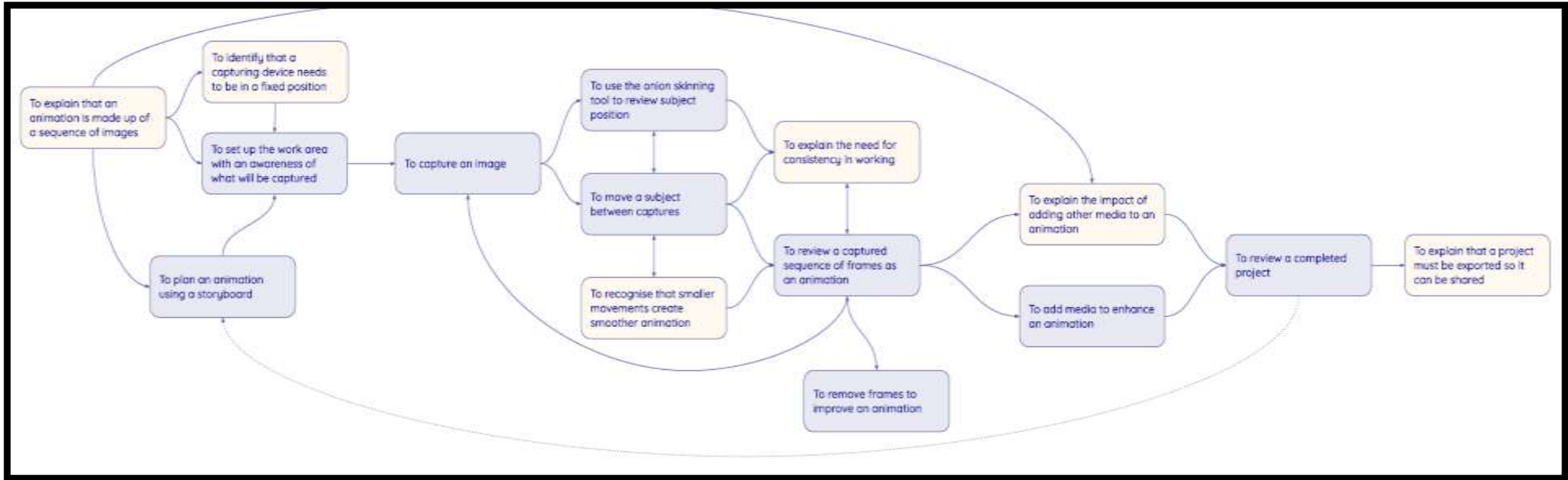
Strands

Information technology
Digital literacy
Computer science
Online safety



Strand: Digital literacy

Key Vocabulary
Software
Hardware
Operating system





Computing Knowledge and Skills Organiser

Year 3, Spring 1

Topic: Sequencing sounds

Strands

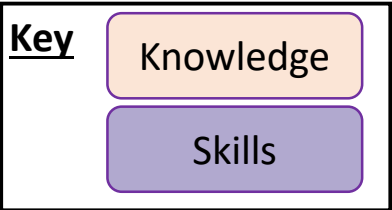
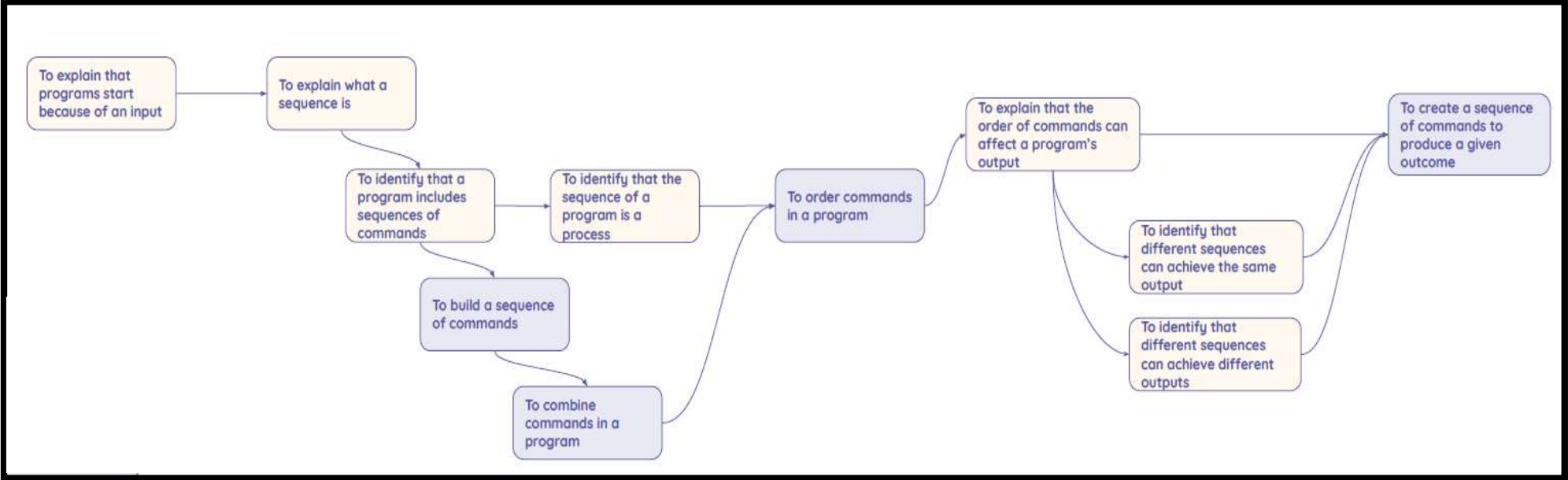
Information technology
Digital literacy
Computer science
Online safety



Strand: Computer science

Key Vocabulary

Algorithm	Program
Debugging	Sequence
Variable	Procedure
Programming	Language
Function	Computational
Logic	Software
Hardware	Abstraction
Operating system	





Computing Knowledge and Skills Organiser

Year 3, Spring 2

Topic: Branching databases

Strands

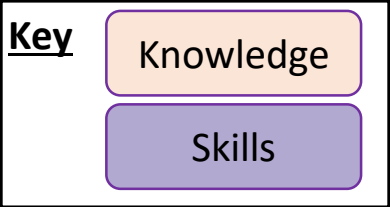
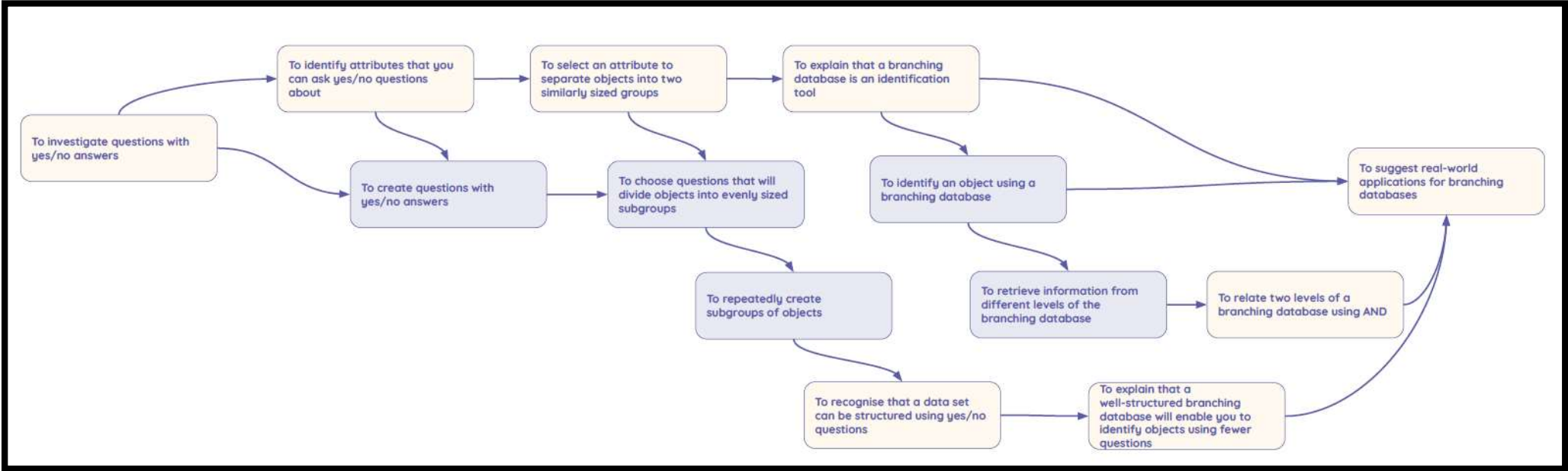
Information technology
Digital literacy
Computer science
Online safety



Strand: Information technology

Key Vocabulary

- Program
- Function
- Software
- Hardware
- Operating system





Computing Knowledge and Skills Organiser Year 3, Summer 1 Topic: Desktop publishing

Strands

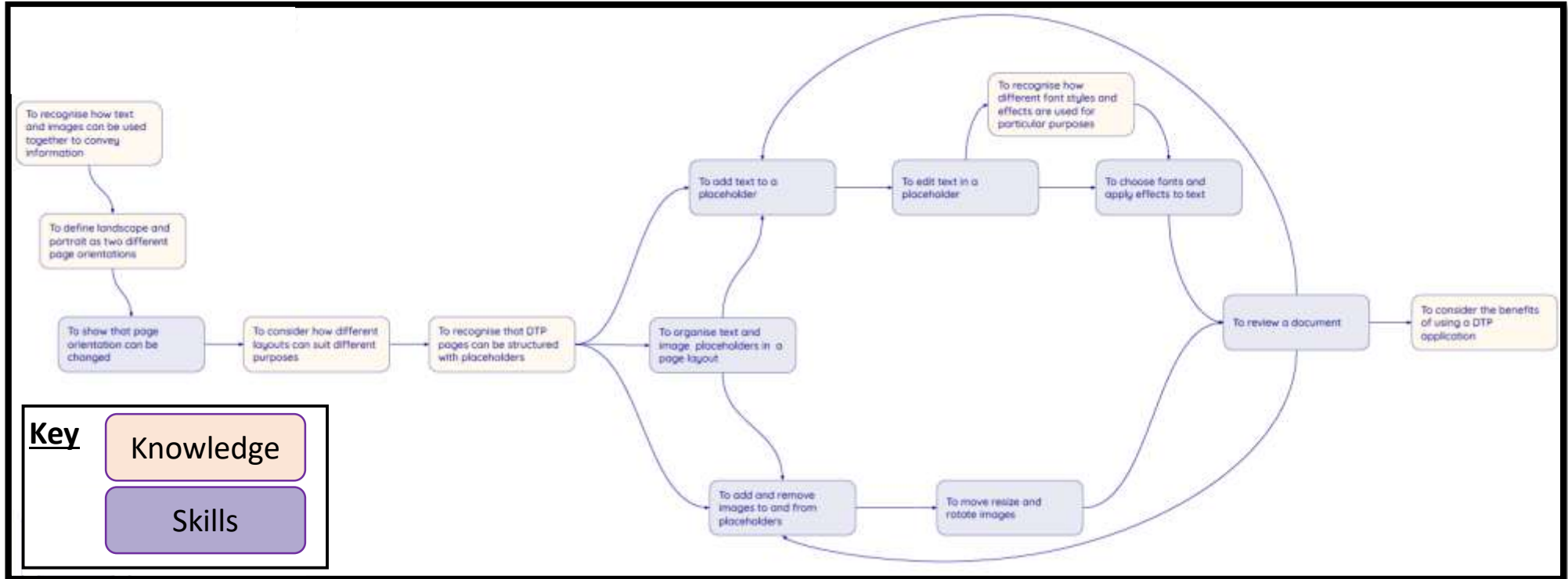
Information technology
Digital literacy
Computer science
Online safety



Strand: Digital literacy

Key Vocabulary

Software
Hardware
Operating system





Computing Knowledge and Skills Organiser

Year 3, Summer 2

Topic: Events and actions in programs

Strands

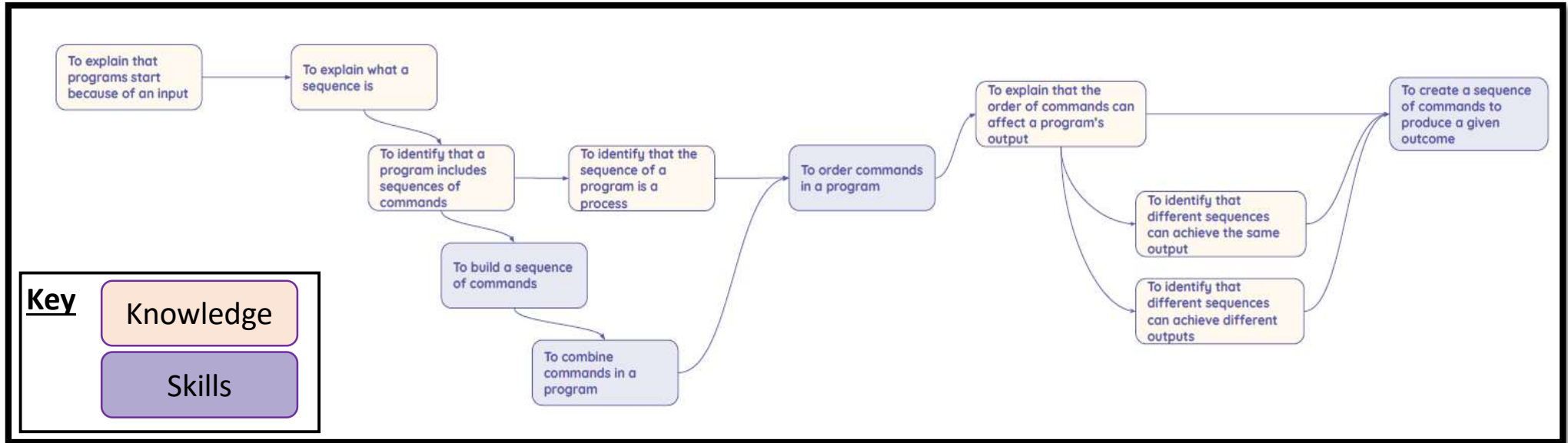
Information technology
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Strand: Computer science

Key Vocabulary

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Operating system	



Self-Image and Identity

I can explain what is meant by the term 'identity'.

I can explain how people can represent themselves in different ways online.

I can explain ways in which someone might change their identity depending on what they are doing online (e.g. gaming; using an avatar; social media) and why.

Managing Online Information

I can demonstrate how to use key phrases in search engines to gather accurate information online.

I can explain what autocomplete is and how to choose the best suggestion.

I can explain how the internet can be used to sell and buy things.

I can explain the difference between a 'belief', an 'opinion' and a 'fact' and can give examples of how and where they might be shared online, e.g. in videos, memes, posts, news stories etc.

I can explain that not all opinions shared may be accepted as true or fair by others (e.g. monsters under the bed).

I can describe and demonstrate how we can get help from a trusted adult if we see content that makes us feel sad, uncomfortable, worried or frightened.

Online Relationships

I can describe ways people who have similar likes and interests can get together online.

I can explain what it means to 'know someone' online and why this might be different from knowing someone offline.

I can explain what is meant by 'trusting someone online', why this is different from 'liking someone online', and why it is important to be careful about who to trust online including what information and content they are trusted with.

I can explain why someone may change their mind about trusting anyone with something if they feel nervous, uncomfortable or worried.

I can explain how someone's feelings can be hurt by what is said or written online.

I can explain the importance of giving and gaining permission before sharing things online; how the principles of sharing online is the same as sharing offline e.g. sharing images and videos.

Online Reputation

I can explain how to search for information about others online.

I can give examples of what anyone may or may not be willing to share about themselves online. I can explain the need to be careful before sharing anything personal.

I can explain who someone can ask if they are unsure about putting something online.

Health, Well-being and Lifestyle

I can explain why spending too much time using technology can sometimes have a negative impact on anyone; I can give some examples of both positive and negative activities where it is easy to spend a lot of time engaged.

I can explain why some online activities have age restrictions, why it is important to follow them and know who I can talk to if others pressure me to watch or do something online that makes me feel uncomfortable (e.g. age restricted gaming or web sites).

Online Bullying

I can describe appropriate ways to behave towards other people online and why this is important.

I can give examples of how bullying behaviour could appear online and how someone can get support.

Privacy and Security

I can describe simple strategies for creating and keeping passwords private.

I can give reasons why someone should only share information with people they choose to and can trust. I can explain that if they are not sure or feel pressured then they should tell a trusted adult.

I can describe how connected devices can collect and share anyone's information with others.

Copyright and Ownership

I can explain why copying someone else's work from the internet without permission isn't fair and can explain what problems this might cause.