



COMPUTING KNOWLEDGE ORGANISERS

Year 1 to Year 6



Hanslope Primary School

Computing Knowledge Organiser

Year 1/2 : Creating Media – Making Music

How does this link to my previous learning?

Use technology purposefully to create, organise, store, manipulate and retrieve digital content

National Curriculum Links:

- Use technology purposefully to create, organise, store, manipulate, and retrieve digital content
- Recognise common uses of information technology beyond school

How does this link to my future learning?

- Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating, and presenting data and information.

What key vocabulary will I learn:

- **Music** - Music is a group of sounds that people have arranged in a pleasing or meaningful way
- **Emotions** – Is how someone feels inside
- **Pulse** - The pulse is a steady beat that runs through the music
- **Rhythm** - Rhythm is a pattern of sounds of different length
- **Pattern** - Patterns are what people hear when listening to a song.
- **Pitch** - The pitch of a sound is how high or low the sound is
- **Tempo** - Tempo is the speed of music
- **Instrument** – An object that can be used to produce music
- **Sound** – Is the vibration that sends waves into our ear
- **Note** - the pitch and the duration of a musical sound

What will I know by the end of this unit:

- To say how music can make you feel
- To identify that there are patterns in music
- To experiment with sound using a computer
- To use a computer to create a musical pattern
- To create music for purpose
- To review and refine our computer work.





Hanslope Primary School

Computing Knowledge Organiser

Year 3: Branching databases

How does this link to my previous learning?

Use technology purposefully to create, organise, store, manipulate and retrieve digital content.

National Curriculum Links:

- Use technology purposefully to create, organise, store, manipulate and retrieve digital content.

How does this link to my future learning?

- Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating, and presenting data and information.

What key vocabulary will I learn:

- **Information** - Data put into a context that provides meaning.
- **Data** - Facts and statistics collected for reference or analysis.
- **Attributes** - A piece of information which determines the properties of a field or tag in a database or a string of characters in a display.
- **Group** - A number of people or things that are located, gathered, or classed together.
- **Branching** - Branching is the practice of creating copies of programs or objects in development to work in parallel versions, retaining the original and working on the branch or making different changes to each
- **Database** - A structured set of data held in a computer, especially one that is accessible in various ways.
- **Multiple** - Having or involving several parts, elements, or members.
- **Classify** - Arrange (a group of people or things) in classes or categories according to shared qualities or characteristics.

What will I know by the end of this unit:

- To create questions with yes/no answers.
- To identify the object attributes needed to collect relevant data.
- To create a branching database.
- To identify objects using a branching database.
- To explain why it is helpful for a database to be well structured.
- To compare the information shown in a pictogram with a branching database.





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Computing Knowledge Organiser

Year 4: Creating Media – Audio Production

How does this link to my previous learning?

Use technology purposefully to create, organise, store, manipulate and retrieve digital content

What key vocabulary will I learn:

- **Photography** – Using a camera to take photos
- **Editing** – To make changes to documents for improvements
- **Software** – The program that runs on a computer
- **Crop** – To remove unwanted portions of a graphic by 'cutting off' the sides.
- **Rotate** – Moving text and images around a fixed point
- **Copy** – creating another version of it that is exactly the same and put it in a different place or a different document.
- **Brightness** – to brighten or darken an image
- **Contrast** – The amount of colour or grayscale within an image
- **Enlarge** - Making an image bigger
- **Reduce** – Making an image smaller

National Curriculum Links:

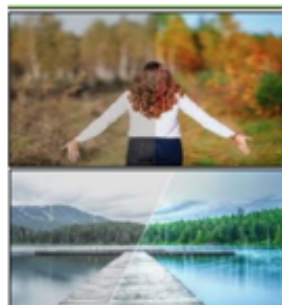
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information

How does this link to my future learning?

- Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems, and content that accomplish given goals, including collecting, analysing, evaluating, and presenting data and information

What will I know by the end of this unit:

- To explain that the composition of digital images can be changed.
- To explain that different colours can be changed in digital images
- To explain how cloning can be used in photo editing
- To explain that images can be combined
- To combine images for a purpose
- To evaluate how changes can improve an image





Hanslope Primary School

Computing Knowledge Organiser

Year 5: Flat-file Databases

National Curriculum Links:

- Use technology purposefully to create, organise, store, manipulate and retrieve digital content.

How does this link to my previous learning?

Use technology purposefully to create, organise, store, manipulate and retrieve digital content.

How does this link to my future learning?

- Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating, and presenting data and information.

What key vocabulary will I learn:

- **Information** - Data put into a context that provides meaning.
- **Data** - Facts and statistics collected for reference or analysis.
- **Collection** - The action or process of collecting someone or something.
- **Database** - A structured set of data held in a computer, especially one that is accessible in various ways.
- **Search** - Try to find something by looking or otherwise seeking carefully and thoroughly.
- **Sort** - The arrangement of data in a prescribed sequence.
- **Filter** - A function that lets you single out a range of data based on the values in a formula.
- **Software** - The programs and other operating information used by a computer.
- **Fields** – Names you give to the columns in a table.

What will I know by the end of this unit:

- To use a form to record information.
- To compare paper and computer-based databases.
- To outline how grouping and then sorting data allows us to answer questions.
- To explain that tools can be used to select specific data.
- To explain that computer programs can be used to compare data visually.
- To apply my knowledge of a database to ask and answer real-world questions.



Name	Age	Gender
John	10	M
Anna	10	F
Michael	10	M
Sarah	10	F
David	10	M
Emma	10	F
James	10	M
Lucy	10	F
Robert	10	M
Grace	10	F

Date	Amount	Customer
01/01/2020	100.00	John Smith
02/01/2020	200.00	John Smith
03/01/2020	150.00	John Smith
04/01/2020	300.00	John Smith
05/01/2020	100.00	John Smith





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Computing Knowledge Organiser

Year 6: Creating Media – Webpage creation

How does this link to my previous learning?

Use technology purposefully to create, organise, store, manipulate and retrieve digital content

What key vocabulary will I learn:

- **Webpage** - a page of information on the internet about a particular subject, that forms (a part of) a website
- **Website** - a set of pages of information on the internet about a particular subject, published by a single person or organization
- **Domain** - a set of websites on the internet that end with the same letters, for example .com
- **Hypertext** - A way of joining a word or image to another page on the internet or in another computer program
- **Audience** – the group of people watching or listening to a play, film or someone speaking.
- **Browser** - a computer program that makes it possible for you to read information on the internet:
- **Copyright** – The legal right to control the production and selling of a book, film, photograph or a piece of music
- **Homepage** - The introductory page of a website, typically serving as a table of contents for the site.

National Curriculum Links:

- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information

How does this link to my future learning?

- Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems, and content that accomplish given goals, including collecting, analysing, evaluating, and presenting data and information

What will I know by the end of this unit:

- To review an existing website and consider its structure
- To plan the features of a web page
- To consider the ownership and use of images (copyright)
- To recognise the need to preview pages
- To outline the need for a navigation path
- To recognise the implications of linking to content owned by other people

