Computing across the Curriculum at WEPA

EYFS

EYFS	IT tool to be used	Desired impact
22 – 36 months To acquire basic skills in turning on and operating some ICT equipment	Provide safe equipment to play with, such as torches, transistor radios or karaoke machines.	Children learn to manage turning on/off different technology toys.
22 – 36 months To operate mechanical toys, e.g. turns the knob on a wind-up toy or pulls back on a friction car.	Cars , train set, bee bot.	Gain enough knowledge about how to operate simple ICT toys.
30 – 50 months To know how to operate simple equipment, e.g. turns on CD player and uses remote control	CD games	Children to learn how to use a CD player on a computer.
30 – 50 months To show an interest in technological toys with knobs or pulleys; or real objects such as cameras or mobile phones.	Cameras, mobile phones, cam recorder ,	Children to know how to record videos, taking pictures etc.
30 – 50 months To show skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images.	IWB, computers – using headphones.	Children to familiarize with different ICT equipment in order to improve their hand- eye coordination and knowledge about new effects as sound , movement and images.
30 – 50 months To Know that information can be retrieved from computers.	Computers, tablets	Children to learn about ICT apparatus, what it does, what they can do with it and how to use it safely.
40 – 60 months To complete a simple program on a computer.	http://www.bbc.co.uk/cbeebies http://www.boowakwala.com/ http://www.bbc.co.uk/cbeebies/drilldown/stories/2/4/1/ http://www.smart-central.com/	Children to learn counting , phonics sounds, designing pictures , singing song.
40 – 60 months To use ICT hardware to interact with age-appropriate computer software.	http://www.topmarks.co.uk/Interactive.aspx http://www.abc.net.au/children/play	Children to learn how to turn on, research on google games and select the ICT games appropriate for their age.
ELG Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.	http://www.lcfclubs.com/englishzone/practicezone/index.asp http://www.edu.dudley.gov.uk/foundation/current/numeracy.htm	Children to learn how to click on different icons to cause things to happen in a computer program.

Year 1

Lesson	IT tool to be used	Desired impact
Science- LO: I can identify and label plants	Purple Mash – labelling parts of a plant	Children to gain knowledge about plant parts to label the different parts of a plant.
Science – LO: I can predict what a plant needs to grow.	Video: BBC Bitesize, What do plants need to grow? http://www.bbc.co.uk/guides/zxxsyrd#zccwq6f http://www.bbc.co.uk/schools/scienceclips/ages/5_6/growing_plants.shtml Laptops: (interactive games)	Gain enough knowledge about what plants need to grow to make predictions.
Geography LO: I can understand the differences between a 'town' and the 'countryside'	Video: http://www.bbc.co.uk/education/clips/z978q6f Stop at 1:19. Question throughout. Google maps to search Hayes Town and then Taplow (Surrounding areas show countryside)	For children to see physical and human features and differences between countryside and town.
Geography LO: I can find out about the weather in the UK.	Laptops: Use google to search weather of each country in the uk and fill in weather reports.	Gain knowledge about weather in the UK from research.
PE LO: I can throw underarm and catch the ball.	Video: (For underarm throw technique) https://www.youtube.com/watch?v=LeADAGoB4FU Short video showing home run, and clear expectations for chn to work towards. https://www.youtube.com/watch?v=wKgwBswpGZ8	Video used to show chn what rounders is and what they'll be working towards.
Art LO: I can create a design for a Barnaby Bears T-Shirt	Laptops/PCs – Paint tool to create designs for t-shirts.	Practise their design on paint first and to try different ideas.

Year 2

Lesson	IT tool to be used	Desired impact
Science- LO: I can present my findings from my results.	Purple Mash – Yr 2 Graph	Children to present their findings for the experiment in their choice of graph.
Science – LO: I can identify plants that grow in the environment.	Cameras	Gain enough knowledge about the different plants that grow in the environment.
History LO: I can understand the Royal family.	http://kids.familytreemagazine.com/kids/familytree.pdf	For children to see the structure of the Royal Family and compare it to their own.
History LO: I can tell others all I have learnt.	Quiz – Purple Mash https://www.purplemash.com/#app/games/2diy/Queen_Elizabeth_Quiz	To show what they have learned over the term about Queen Elizabeth II.
R.E - LO: I know stories about Hindu Gods.	Video https://www.youtube.com/watch?v=g5E8dVk4XGM http://www.bbc.co.uk/education/clips/z2d2hyc	Video that tell the stories of the Hindu Gods.
DT - **LO:** I can collect information for my design.	Purple Mash- Castles	To gain knowledge about the different features of a castle.

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Year 3

Lesson	IT tool to be used	Desired impact
Science LO: To identify light sources.	Laptops	This animation from BBC Class Clips demonstrates why light sources are needed at night time.
Science LO: To know how to make shadows/ To be able to explain what happens to make a shadow	Laptops	BBC Bitesize explanation of shadows and how they are formed by sources of light and the sun.
History LO: I explain where the Anglo Saxons came from.	Videos	Clips to introduce the Vikings.
DT LO: I can use my knowledge of a balanced healthy diet to research popular products.	Videos	Laptops for research- type in google: Popular products for a healthy balanced diet ks2.
History LO: I can compare and contrast Vikings with another time period.	Laptops	ICT use of laptops to research facts about the romans.

Year 4

Lesson	IT tool to be used	Desired impact
English I can research Usain Bolt	Laptops	Children will research Usain Bolt- writing biographies. **Olympic site:** https://www.olympic.org/usain-bolt **Usain Bolt site:** usainbolt.com/ (some photos are risky) www.biography.com/people/usain-bolt-20702091 https://www.iaaf.org/athletes/jamaica/usain-bolt-184599
RE L.O. I can understand what signs and symbols mean.	Laptops	Children will use the laptops to research a range of different religious signs and symbols and the importance within the religion. **Lesson 2:** http://www.crickweb.co.uk/ks2re.html **Lesson 4:** http://www.crickweb.co.uk/ks2re.html#BuddhistSymbols **Lesson 5:** http://www.greatsynagogue.org.au/Traditions/SynagogueSymbolism.aspx
History LO: I can locate ancient Mayan cities on a map.	Laptops/ google maps	Children to use google maps to locate different cities. https://maps.google.co.uk
PSHE Futures Week	PowerPoint	Children will create a presentation on what they would like to be when they get older. https://www.youtube.com/watch?v=rrsb6OdBGzk
Science LO: I can explain the human digestive system.	Flowchart- 2connect.	Children to use Flowchart to show how the digestive system works. **Lesson 1:** http://www.childrensuniversity.manchester.ac.uk/interactives/science/bodyandmedicine/digestivesystem/ **Lesson 3:** http://link.brightcove.com/services/player/bcpid1835313767001?bckey=AQ~~,AAAABNaOSDE~,MV0hcnoQX_kTd8ed4mSztIztph6AcWZo&bctid=3637563797001 https://prezi.com/vpc_3nnajntl/cow-vs-human-digestive-system/ **Lesson 4:** www.childrensuniversity.manchester.ac.uk/interactives/science/teethandeating/typesofteeth/
PE LO: I can perform a volley shot.	Cameras	Children will record videos and re watch the videos to improve the performance
Music LO: I can play my Samba rhythm with control and accuracy within a group	Video cameras	Children to record and critique each other's performances.

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Year 5

Lesson	*IT tool to be used*	*Desired impact*
Science- LO: I can use secondary sources to find out information about the 8 planets.	Laptops	children to independently research the planets to create a fact file
Science- LO: I can research about the first men to walk on the moon.	Cameras/ green screens if possible	Children to create a short film that re-enacts the moon landing in the style of a news report. Children to use technology independently where possible.
Geography- **LO: I can draw my local area using the 'bird's eye' view.**	Laptops/ google maps	Children to produce a map showing key features of the area using google maps as a reference.
DT- **L.O. I can investigate features of space rockets.**	Laptops	Children to be given key subheadings to research. Children will get create a bank of different designs they can use to build a rocket.
DT- **LO: I can compare London with another city in Europe.**	Microsoft excel	Children will create a graph that compares London with Paris
PE- I can throw a shotput with control.	Cameras	Children will record videos and re watch the videos to improve the performance

Year 6

Lesson	**IT tool to be used**	**Desired impact**
Science: I can research information to create a safety leaflet for children (Electrical Safety)	Internet/Lap tops	Pupils will know the safety features which they can write about in a leaflet – ch can choose relevant information.
English: Explanation texts	Internet/lap tops	Pupils will understand how technology works in order to form their own inventions
English: Descriptive settings	Videos	Pupils will know the settings they are writing about and will help with their vocabulary choices
DT: evaluate ideas	Blog (Purple mash: 2blog)	Pupils will create a blog with ideas for their own evaluations but will also have the opportunity to look at others evaluations and comment with further improvements that could be made
History: presenting finding about famous British battles	Powerpoint or purple mash newspaper reports	Pupils will collate their findings using ICT tool of their choice
SRE: changing bodies	Videos	Pupils will be shown diagrams and explained how the human bodies work. Interviews with other children who have gone through the same experiences to help start discussions between their own peers.
French	Eurostar software	Interactive songs and games to help pupils with pronunciation and to help remember specific vocabulary.
Grammar	Revision games – websites	The pupils will play various games to help them apply the grammar knowledge taught in class.