Year 3 /4	Overview Y3 /4	Autumn	Spring	Summer
Computer Science	**Programming** (Algorithms, Sequencing and testing code) Beebot / Roamer / Probot Programming apps	**L.O: To explore algorithms** • What is an algorithm Learn what an algorithm is. Programme your teacher to make a Jam Sandwich http://code-it.co.uk/unplugged/jamsandwich • Exploring existing algorithms Rapid Router - levels 1-18 https://www.codeforlife.education/rapidrouter/ HA Rapid Router up to L32 **Y4 Challenge - Level 32+** Additional resources: Hour of code - Frozen http://studio.code.org/s/frozen/stage/1/puzzle/1 ALEX/ Junior Scratch	**L.O: To create an algorithm** Scratch Junior app **LA / MA** basic use of Scratch Adding instructions / changing sprite etc **HA-** follow instructions on creating animations: http://code-it.co.uk/csplanning.html Debug **Y4 Challenge:** Create an animation using a flipbook character use the move command to make the character move across the stage. Then make the background stage move: http://www.code-it.co.uk/scratch/dressingup/dressingupoverview.html	**L.O: To program and test coding** **Probots –** Make a square initial of name / hexagon **Y4 Challenge-** Make instructions for above procedure and use Probots to predict and debug instructions. **J2E Turtle-** to extend to on screen routes using programming language - LA – moving around pictures MA / HA adding instructions fd / bk etc / drawing shapes etc **Y4 Challenge -** Procedures – making a repeating pattern J2E Additional resources: **J2E code** **Microbits –** simple programming using Microbits
Digital Literacy	**Digital Literacy & Citizenship** (Research) SWGFL scheme of work (Online Communication and E-Safety, DLG, B	**SWGFL Scheme of work** *Staying Safe* **Smart Crew** Videos and lesson resources. Covering a range of areas) Video :- http://www.childnet.com/resources/the-adventures-of-kara-winston-and-the-smart-crew *Passwords* Setting Network Passwords. **Powerful Passwords** Common Sense Media https://www.commonsensemedia.org/educators/lesson/powerful-passwords-k-2	*Staying Safe* Create posters to demonstrate understanding of key issues. (Publisher or Pages) http://www.kidsmart.org.uk/teachers/KS2/lessonplans.aspx **Websites and Adverts** Common Sense Media https://www.commonsensemedia.org/educators/lesson/things-sale-2-3	**The Key to Keywords** Common Sense Media https://www.commonsense.org/education/lesson/the-key-to-keywords-3-5 Use these skills to find information Anglo Saxons
	Communication Publishing and collaborating	**L.O: To explore multimedia word processing**	**L.O: To explore multimedia word processing**	

I T	**(Multimedia Word Processing)**	**Comic Strip app –** Design your own comic strip LA- 2 pictures comic strip MA / HA comic strip story storyboard **Y4 Challenge- add in other media (e.g sounds, animations)**	LA- use pic collage to sequence photos to make a set of instructions HA / MA- add photos to word/ publisher and add instructions **Y4 Challenge -** publishers – create advert/poster materials	
	Digital video **Video & Animation** **Music / Sound**	**L.O: To explore digital video** - Explore Imovie https://www.youtube.com/watch?v=L9A JUo6busg **CROSS CURRICULAR**	**L.O: To create a digital video** Create a short TV Movie (I Movie) **CROSS CURRICULAR**	**L.O: To apply understanding of digital video** Create a documentary and script using multimedia apps **CROSS CURRICULAR**
	Digital Imagery **(Graphics & digital cameras)**		**L.O: To create music using multimedia app** Create some music in Garage Band **CROSS CURRICULAR**	**L.O: To edit pictures using multimedia app** *www.pixlr.com/editor* **CROSS CURRICULAR**
	Handling Information **(Database / Spreadsheets)**	**L.O: To create a database** J2E- record and sort **CROSS CURRICULAR**		**L.O: To create a spreadsheet** Excel **CROSS CURRICULAR**