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|  | **Video** | **Computer/Tablet – coding and programming** | **Unplugged – no device needed** | **Online Safety** |
| **NC** | * *understand computer networks inc the internet*
* *know how they can provide multiple services, such as the World Wide Web*
* *understand the opportunities they offer for communication & collaboration*
 | * *Understand what algorithms are*
* *design, write & debug programs that accomplish goals*
* *detect & correct errors in algorithms & programs*
* *Use logical reasoning to predict the behaviour of simple programs*
 | * *Understand what algorithms are*
* *detect & correct errors in algorithms & programs*
* *understand computer networks including the internet*
 | *use technology safely, respectfully & responsibly**recognise acceptable & unacceptable behaviour* |
| **Wk 1** | **BBC Bitesize: Algorithms and debugging**<https://www.bbc.co.uk/bitesize/articles/z6rhnrd> | **Barefoot Games: Asteroid Blaster**<https://barefootgames.org/asteroid-blaster?ref=https://www.barefootcomputing.org/> | **Hello Ruby: Play****Art and Algorithms**<https://www.helloruby.com/play/16> | **Google Interland – online activities**<https://beinternetawesome.withgoogle.com/en_uk/interland> |
| **Wk 2** | **BBC Bitesize: What is decomposition?**<https://www.bbc.co.uk/bitesize/topics/zs7s4wx/articles/z8ngr82> | **Barefoot Games: The Diamond**<https://barefootgames.org/the-diamond?ref=https://www.barefootcomputing.org/> | **Hello Ruby: Play****What’s Inside a Computer?** <https://www.helloruby.com/play/11> | **Google Interland – online activities**<https://beinternetawesome.withgoogle.com/en_uk/interland> |
| **Wk 3** | **BBC Bitesize: What is digital data?**<https://www.bbc.co.uk/bitesize/topics/zs7s4wx/articles/zx3q7ty> | **Code Studio: Dance Party**<https://code.org/dance> | **A bit of cs4fn (Computer Science for Fun)****Picture This**<https://abitofcs4fn.org/art/picture-this/> | **Common Sense Education****My Media Balance - video**<https://www.commonsense.org/education/digital-citizenship/lesson/finding-my-media-balance> |
| **Wk 4** | **BBC Bitesize: How does the internet work?**<https://www.bbc.co.uk/bitesize/topics/zs7s4wx/articles/z3tbgk7> | **Scratch Tutorials: Tell a Story**<https://scratch.mit.edu/projects/editor/?tutorial=tell-a-story> | **Computer Science Unplugged****Mind Reading Magic**<https://csunplugged.org/en/at-home/mind-reading-magic/#mind-reading-magic> | **Common Sense Education****Digital Passport: Twalkers game**<https://www.digitalpassport.org/twalkers.html> |
| **Wk 5** | **BBC Bitesize: How do search engines work?**<https://www.bbc.co.uk/bitesize/topics/zs7s4wx/articles/ztbjq6f> | **Scratch Tutorials: Code a Cartoon**<https://scratch.mit.edu/projects/331474033/editor?tutorial=code-cartoon> | **Computer Science Unplugged****Product Code Secrets**<https://csunplugged.org/en/at-home/unlocking-the-secret-in-product-codes/#unlocking-the-secret-in-product-codes> | **Common Sense Education****Digital Passport: Mix & Mash game**<https://www.digitalpassport.org/mix-n-mash.html> |
| **Wk 6** | **BBC Bitesize: What is the world wide web?**<https://www.bbc.co.uk/bitesize/topics/zs7s4wx/articles/z2nbgk7> | **CS First with Google: From Hero to Superhero**<https://csfirst.withgoogle.com/c/cs-first/en/code-your-hero/code-your-hero/introduction-from-hero-to-superhero.html> | **Computer Science Unplugged****Squeezing Pictures into Code**<https://csunplugged.org/en/at-home/squeezing-pictures/> | **Common Sense Education****Digital Footprint - video**<https://www.commonsense.org/education/videos/digital-footprint> |
| **Extras****Hello Ruby: Play** – lots more unplugged activities here: <https://www.helloruby.com/play>**Computer Science Unplugged** – lots more activities here: <https://csunplugged.org/en/at-home/>**A bit of cs4fn (computer science for fun)** <https://abitofcs4fn.org/>**Code Studio** – lots more coding lessons here: <https://code.org/student/elementary>**Scratch Tutorials** – lots more tutorials here: <https://scratch.mit.edu/ideas> | **Activities for families****Barefoot Computing Mini Missions**<https://www.barefootcomputing.org/docs/default-source/at-home/mini-missions_online_resourcegrid.pdf> |