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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> | |