|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **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* | * *design, write & debug programs that accomplish specific 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**  **What is computer science?**  <https://www.bbc.co.uk/bitesize/topics/zs7s4wx/articles/zxgdwmn> | **Barefoot Games: Barefoot Zoo**  <https://barefootgames.org/barefoot-zoo?ref=https://www.barefootcomputing.org/> | **Hello Ruby: Play**  **3D Paper Computer**  <https://www.helloruby.com/play/29> | **Common Sense Education**  **Digital Passport: Search-Shark**  <https://www.digitalpassport.org/search-shark.html> |
| **Wk 2** | **BBC Bitesize**  **How do we get computers to do what we want?**  <https://www.bbc.co.uk/bitesize/articles/zht4kmn> |  | **Hello Ruby: Play**  **What is a Computer?**  <https://www.helloruby.com/play/3> | **Common Sense Education**  **Digital Passport: Password Protect**  <https://www.digitalpassport.org/password-protect.html> |
| **Wk 3** | **BBC Bitesize**  **How do the internet and search engines work?**  <https://www.bbc.co.uk/bitesize/articles/zn6vgwx> | **Code Studio: Minecraft Hero’s Journey**  <https://studio.code.org/s/hero/stage/1/puzzle/1> | **Hello Ruby: Play**  **What does the Internet Look Like?**  <https://www.helloruby.com/play/18> | **Common Sense Education**  **Follow the Digital Trail**  <https://www.commonsense.org/education/videos/follow-the-digital-trail> |
| **Wk 4** | **BBC Bitesize**  **What is the world wide web?**  <https://www.bbc.co.uk/bitesize/topics/zs7s4wx/articles/z2nbgk7> | **Code Studio: Minecraft Voyage Aquatic**  <https://studio.code.org/s/aquatic/stage/1/puzzle/1> | **Barefoot Computing: Going Wild**  <https://www.barefootcomputing.org/docs/default-source/at-home/going_wild_full_pack.pdf?sfvrsn=255391ea_2> | **The SMART Crew Video**  <https://www.childnet.com/resources/the-adventures-of-kara-winston-and-the-smart-crew/watch-full-movie> |
| **Wk 5** | **BBC Bitesize**  **Different ways to communicate online**  <https://www.bbc.co.uk/bitesize/topics/zv63d2p/articles/z9r72hv> | **Scratch: Make Music**  <https://scratch.mit.edu/projects/editor/?tutorial=music&utm_source=codeorg> | **Barefoot Computing: Building Blocks**  <https://www.barefootcomputing.org/docs/default-source/at-home/bb_activity_instructions.pdf?sfvrsn=b03091ea_0> | **Google Interland – Online Safety games and activities**  <https://beinternetawesome.withgoogle.com/en_uk/interland> |
| **Wk 6** | **BBC Bitesize**  **Should I trust everything I read on the web?**  <https://www.bbc.co.uk/bitesize/topics/zv63d2p/articles/zt9thyc> | **Scratch: Animate a Name**  <https://scratch.mit.edu/projects/editor/?tutorial=music&utm_source=codeorg> | **Computer Science Unplugged**  **Kidbots**  <https://csunplugged.org/en/at-home/kidbots/> | **Google Interland – Online Safety games and activities**  <https://beinternetawesome.withgoogle.com/en_uk/interland> |
| **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/>  **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> | |