|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **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> |