

### *Subject Identification Criteria for More Able Pupils (MAPs)*

## ICT

More Able Pupils in Computing may display a selection of the following characteristics:

- Learn and apply new software rapidly to solve problems
- Evaluate new software, hardware and applications analytically, using prior learning and experience to anticipate performance issues
- Use experimentation and initiative to troubleshoot problems and/or gain a much higher level of performance from a range of systems
- Break down larger tasks into a logical sequence of work
- Customise the performance of software or hardware to their own specific needs
- Work quickly, intuitively, transferring skills and knowledge from one area to another
- Are interested in coding as a means of creating solutions to problems – or for fun
- Understand the needs of users, the social, cultural, historical or aesthetic influences on use of information technology and apply this to provide appropriate products or solutions
- Explore topics independently, showing clear awareness of the validity of sources
- Can explain complex work and issues logically, often with humour

### **Activities that MAPs should do:**

- Enjoy Lego Robotiks, Raspberry Pi and similar construction challenges
- Create extensive, complex Minecraft worlds
- Enjoy using music technology programmes professionally
- Follow news stories which feature issues relevant to computing such as piracy, intellectual copyright, privacy, the launch of new products
- Use the internet to teach themselves more about coding, computing and products
- Create or update websites to support voluntary organisations or charities
- Improvise solutions to computing problems at school and at home, including breaking into the coding behind games to personalise or improve play
- Develop apps to solve relevant problems – and for fun
- Are depended on to troubleshoot the computing problems of others
- Build their own computers from bespoke parts, do this for others, upgrade laptops
- Use computing creatively, for example with digital photography or film, for pleasure

How parents can support MAPs:

- Talk with pupils about current news stories which are relevant to technology
- Ensure pupils have access to online resources that will enable them to investigate the subject area further