

Miss Smart & the Diamond Thief

Coding with the BBC micro:bit

p15

Miss Smart owns a very large diamond which she keeps in a safe with a programmable alarm, sensors and lights. She has heard that a gang of thieves are planning to steal the diamond and she must write some computer programs to stop them.

Working in pairs your pupils take on the role of programmers, learning how to write code to stop the thieves from stealing the diamond. After some initial exercises pupils are encouraged to use their imagination to develop their own solutions to stop the intruders.

The aim is to:

Provide a stimulating and practical activity, suitable for all abilities, which compliments learning in school

- Learn to program the BBC micro:bit computer using block code
- Introduce flow diagrams, sequencing and binary concepts
- Develop logical thinking, analytical and problem solving skills
- Improve team working and communication skills
- Provide an opportunity to use their imagination and creativity

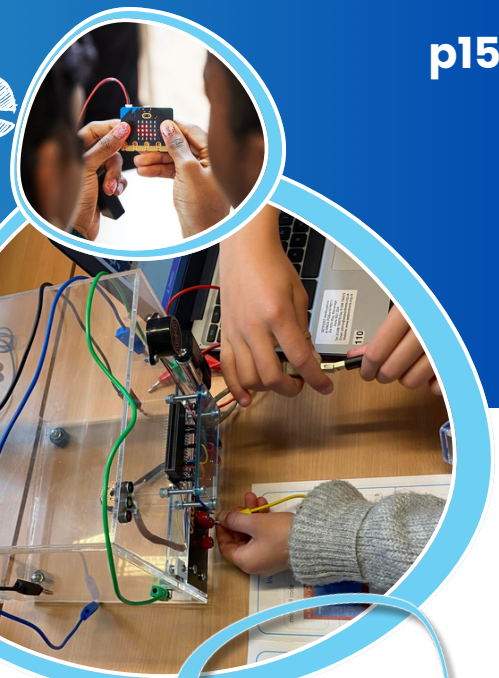
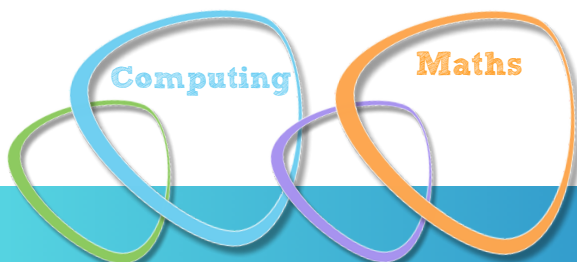
This workshop works best in a classroom.

The IT suite is not needed as we bring all the necessary equipment and resources.

Computing/Maths/Problem-solving

To book a workshop go to:

https://share-eu1.hsforms.com/1HUqaEKvfQSG9sQWoA_LxJA2dbud8



**Years
5 & 6**

Only £7.00
per pupil for a
full day of 60 pupils

National Curriculum links

Full Curriculum Links
at:
[Coding with the BBC
micro:bit Curriculum
Links](#)



Cost: A whole day: 2 x 2 ½ hours approx. sessions/workshops at £420 per day

Morning only: 1 x 2 ½ hours approx. sessions/workshops at £290 per morning

All materials and equipment provided. Maximum class numbers per session = 32 pupils

Helpers: You will need to provide 5 adult helpers in addition to the class teacher for each session/workshop