

How will the school & teaching staff gain?

- Focused and connected learning experience
- Enrich themes through the creative curriculum
- Support the delivery of the ICT aspect of the curriculum
- A positive learning experience with a fun element

How will pupils benefit from the Bee-Bots Workshop?

The pupils will increase their knowledge and understanding of:

- control technology

The pupils will:

- have to apply ICT
- have to apply Maths
- use a range of skills to programme effectively
- work as part of a team
- use problem solving skills

Quote from Reception Teacher, St Mary's CE Primary School, Kirkby Lonsdale - BEE-BOTS Pilot Programme.

"The BEE-BOT workshop was wonderful for all the children. There was something for every child and every area of learning from recognizing numbers 1 - 10 and reading Consonant - Vowel - Consonant words to delivering Katy Morag's mail [one of the challenges] and using the inter-active whiteboard.

What impressed me most was that my 4 - 5 year olds remained focused and interested for a whole morning. They were learning so much in a fun and informal atmosphere".

Quote from Year 3 - 4 Teacher, Caton Community Primary School.

"The children were enthralled from the beginning to the end of the workshop. The software was easy to navigate and appropriate to the Year 3 children. The development of personalised maps is a fantastic extension for the Year 4 children. The Bee-Bots themselves are appealing and user-friendly, and the link between the software and the prepared maps meant that they could really consolidate their skills. I look forward to working with them in the future"

1/2 Day Workshop £100

All equipment is provided except interactive whiteboard. If you require a longer session please do not hesitate to phone the office on **01539 814617** and we will give you a quote

For further details contact:-

Cumbria STEM Centre Ltd

Tel: 01539 814617

www.cumbriastemcentre.co.uk

Bee-Bots

**EYFS,
Yr1, Yr2, Yr3 &
Yr4**
Control Technology



Promoting Science, Technology, Engineering & Maths

The Bee-Bot Workshop Curriculum Links.

Bee Bots are programmable floor robots that are easy to use and are an excellent introduction to control technology. Our workshops have been developed in line with our highly successful 'Robolab' KS2 mobile workshops.

The workshops have been designed to be flexible to suit the particular needs of the children and school.

EYFS- This workshop has been designed to be run as a whole class or in small groups within the classroom setting. Children have the opportunity to use Bee-Bots on an individual basis. This allows children to explore, consolidate and reinforce key skills that will be taught during the workshop. An interactive whiteboard programme and bright colourful floor mats can be used as an extra dimension to the workshop and extend skills.

KS1- This workshop is appropriate for Yr1 & Yr2. As in the EYFS workshop, children have the opportunity to work with the Bee-Bots on an individual basis. This gives the time for a child to re-visit previously learned control technology skills.

The interactive whiteboard programme is used to look at the Bee-Bot and the commands needed to navigate around the virtual mat. This gives the time for whole class focus and discussion about positional work. The final part of the workshop uses brightly coloured floor mats and challenge cards. The children work in teams to guide Bee-Bot around the mats. Alternatively the children can make their own mats with overlays and write their own challenges. This can be linked to the creative curriculum. This workshop can be adapted for mixed age range classes and for classes with no previous control technology experience.

KS2 Yr 3& Yr4- This workshop has been designed to enable children to begin to think about robotics and control technology in 'the real world.' The use of Bee-Bots gives the children familiar and user-friendly control technology equipment so they can really focus on the importance of programming. During the workshop children are asked to consider where and how a robot gains its intelligence and consequences this may have.

What will the workshop include?

The Bee-Bot mobile workshops will:

- Be delivered by a member of Cumbria STEM Centre staff with expertise in Primary Science and Technology.
- Help Primary schools deliver control elements of the ICT curriculum
- Help link together other subjects through the creative curriculum.
- Provide a fun educational 'hands-on' robotics activity which will enthuse and excite pupils and teachers alike and add value to the curriculum
- Promote an awareness of robotics and control technology

If you already have some of your own Bee Bots we can help you set up a sustainable programme of learning