Kitronik 5668 Lesson in a Box Primary Computing Pack Instruction Manual

Contents

Kitronik 5668 Lesson in a Box Primary Computing Pack

Product Specifications:

- Product Name: Kitronik Lesson in a Box – Primary Computing Pac for BBC micro:bit
- Contents:
  - 1 x LAB:bit
  - 1 x 5 spoke injection moulded Wheel and tyre for the motor
  - 1 x 3xAA Battery cage
  - 1 x Printed A4 Piano
  - 1 x Printed A4 Snakes and Ladders style board
  - 1 x Printed A3 Build Instructions

Product Usage Instructions:

1. Setting Up:

Open the Primary Computing Pack and ensure all components are included as per the contents list.

2. Assembling LAB:bit:

Follow the printed A3 Build Instructions to assemble the LAB:bit board with the provided components.

3. Powering Up:

Insert 3 AA batteries into the battery cage and connect it to the LAB:bit board to power up the micro:bit.

4. Coding with micro:bit:

Utilize the micro:bit's coding capabilities with languages suitable for every skill level to explore various activities.

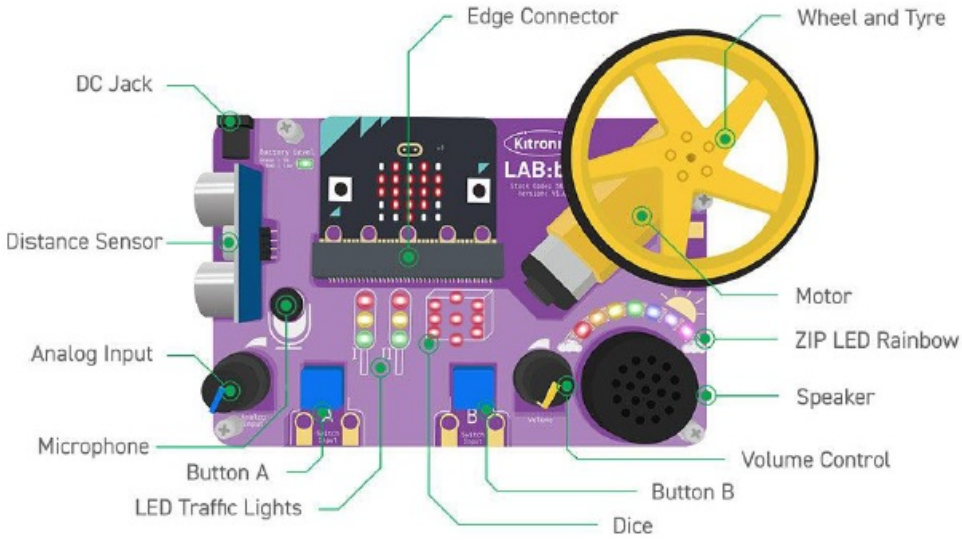
5. Curriculum Areas Covered:

The Primary Computing Pack covers Computing KS2, Science KS2 (Year 4 Sound), Science KS2 (Year 6 Light), Maths KS2 (Year 5 Measurement), and Maths KS2 (Year 5&6 Statistics).

Product code: 5668

Kitronik Lesson in a Box – Primary Computing Pack for BBC micro:bit

- The Kitronik Lesson in a Box Primary Computing Pack is a complete set of electronics and teaching resources to enable successful Ofsted quality curricular-linked lessons with minimal teacher effort. The kit and teaching resources have been tried and tested by real pupils and developed with real teachers to save you time.
- In developing this box we wanted it to be affordable, useful and robust enough for teachers to use again and again. The resources cover KS2 computing specifications with link over to KS2 Science.
- All of the teaching resources are set out in a teacher, ‘user-friendly’ way, including technicians’ notes, lesson plans, and worksheets. These are supplied as Microsoft Word, PowerPoint formats as well as PDFs, which can be copied, modified, and printed to suit your own teaching style. There is also a quick start guide to the Lesson in a Box kit that gives an overview of the whole box including a summary of your new lessons, how to set up your kit, how to use the micro:bit, code examples and more!



- The Primary Computing Pack utilise the BBC micro:bit and our LAB:bit board designed specifically for this type of activity! It requires no soldering and has a protective case on top of the components. The advantages of the micro:bit are that while being easy to use, it is feature-packed and it can be coded with languages that suit every ability level.

Features

- The Lesson in a Box Primary Computing Pack is a complete set of electronics and teaching resources to enable successful curricular lessons with minimal teacher effort.
- The box covers 4 of the progress 7 curricula for the National Curriculum for KS2 Computing, and also covers 4 of the progress 9 curricula for the National Curriculum for KS2 Science.
- No soldering is required for technicians or students.
- The kit and teaching resources have been tried and tested by real pupils and developed by real teachers.
- The kit includes technicians’ notes, lesson plans, resources and workbooks or worksheets.
- The kit has been designed to be used over and over again, all component parts were chosen/designed with this in mind.
- Packaged in a sturdy reusable Grantnells tray that will keep the kits together and safe in between uses.
- It’s fun to teach and fun to learn!

Hardware

Contents

- There are 10 student and 1 teacher sets of Electronics (11 sets in total) supplied in a reusable Gratnells tray. Each set includes:
  - 1 x LAB:bit.
  - 1 x 5 spoke injection moulded Wheel and tyre for the motor. 1 x 3xAA Battery cage.
  - 1 x Printed A4 Piano.
  - 1 x Printed A4 Snakes and Ladders style board.
  - 1x Printed A3 Build Instructions.
- Also included with the Kit is a USB Drive, the drive contains;
  - Quick start guide for teachers and technicians.
  - full teaching resources for 11 lessons, including PowerPoint presentations, worksheets, schemes of work, and some printed material.
  - Lesson 1 – Introduction to BBC micro:bit and MakeCode
  - Lesson 2 – Inputs and Outputs.
  - Lesson 3 – Physical Systems
  - Lesson 4 – Algorithms
  - Lesson 5 – Traffic Lights
  - Lesson 6 – Traffic Light with Crossing
  - Lesson 7 – Brightness Control
  - Lesson 8 – Speed Control
  - Lesson 9 – Sound Meter
  - Lesson 10 – Echolocation
  - Lesson 11 – Musical Instrument
- The Primary Computing Pack covers the following curriculum areas for Key Stage 2 (age 8-11).
  - Computing KS2.
  - Science KS2 (Year 4 Sound)
  - Science KS2 (Year 6 Light)
  - Maths KS2 (Year 5 Measurement).

    - Maths KS2 (Year 5&6 Statistics).
- Example Code.
- Templates for the Zeotrope to be printed.

FAQs

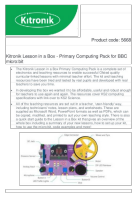
Q: Is soldering required for assembling the components?

- **A:** No, the Primary Computing Pack does not require soldering as the components are designed for easy assembly.

Q: Can the micro:bit be coded by students of all skill levels?

- **A:** Yes, the micro:bit can be coded with languages suitable for every ability level, making it accessible to all students.

Documents / Resources

	Kitronik 5668 Lesson in a Box Primary Computing Pack [pdf] Instruction Manual 5668, 5668 Lesson in a Box Primary Computing Pack, Lesson in a Box Primary Computing Pack, Primary Computing Pack, Computing Pack

References

- User Manual

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