Park House School Computing Hub
Summer School Proposal – Year 5 and 6 Pupils in West Berkshire

The Computing Hub are inviting current year 5 and 6 pupils to take part in the following projects during the summer break. There are two projects which pupils can take part in. They can opt to take part in just one or both of these experiences:

1. Fitness and wellbeing – pupils will create three different programmable devices using the microbit including a step counter and a heart rate monitor. They will also create a lovable micropet to support them with well-being and a reminder for staying hydrated.

2. Environment and the outdoors – pupils will create a selfie-taking device to take a beautiful outdoor picture with nature, create an anti-poaching collar and a species counter so they can record frequencies of animals in their area.

All of these experiences will be delivered synchronously to pupils and will enable them to take their learning and their programmed device into the outdoors. For each task there will be an opportunity to share what they have found when taking the tech outdoors using a collaborative platform. Pupils will be able to enter their data in a shared spreadsheet so that they can carry out further data analysis.

In summary this is an experience of a pupil through each of these 6 individual activities:

- Complete a small survey to share their current knowledge
- Take part in a synchronous learning session to code their microbit
- Use the PDF activity sheet with basic instructions on what to do outside with their programmed device
- Share their images of experiences and any data through the shared spreadsheet
- Take part in the extension activity where they can carry out data analysis on the full cohort’s collected data

For more details and to enrol in this project parent should please see the flyers below or contact Pete Marshman pmashman1@parkhouseschool.org
CODE IN, KEEP FIT, LOVE NATURE
SUMMER SCHOOL

PROVIDED BY THE PARK HOUSE SCHOOL NCCE COMPUTING HUB & WEST BERKSHIRE COUNCIL

- Receive a micro:bit programmable device
- Code your micro:bit indoors
- Take it outdoors to keep fit and explore nature
- Create a micro:bit step-counter, species-counter and much more!
- Delivered by experienced Computing teachers

Consists of six webinars and six tech support sessions
The micro:bit can be programmed from a laptop, tablet or PC

OPEN TO 10-11 YEAR OLDS
STARTS MONDAY 10TH AUGUST


Fitness & Wellbeing
10th August | 10am: Create a step-counter
12th August | 10am: Create a heart rate monitor
14th August | 10am: Create a digital pet

Environment & Nature
17th August | 10am: Create a selfie-taking device
19th August | 10am: Create an anti-poaching collar
21st August | 10am: Create a species counter

11am: Zoom on-screen support on each day

This Summer School provides an opportunity for children to catch up with Computing ready for September

Park House School is a Centre of Excellence for Computing, CAS Community & Digital Schoolhouse
www.parkhousehub.org | teachcomputing@parkhouseschool.org

PARK HOUSE SCHOOL COMPUTING HUB PRESENTS
CODE IN, KEEP FIT, LOVE NATURE
SUMMER SCHOOL

EXPERIENCE 1: KEEP FIT - STEP COUNTER

Step 1:
Follow to quick start webinar to setup your micro:bit and get be ready to code
bit.ly/microsummer/quickstartpc
(laptop and PC guide)
bit.ly/microsummer/quickstartmac
(macbook guide)
bit.ly/microsummer/quickstarttab
(tablet guide)

Step 2:
Let’s create a variable (a number that will change) and set it to 0. This will record how many steps you take.

Each time the battery is disconnected the counter will reset to 0

Step 3:
Next we’ll add an on shake command. The accelerometer in your micro:bit will detect when you move and will add 1 steps.

The show number command will display the number of steps you have take using the led lights

Get creative!

How will you attach the micro:bit to your clothing?

How can you protect it from damage if it falls off?

Can you find some materials around the house to solve this? Maybe some masking tape, some card, a paper clip or maybe something else?