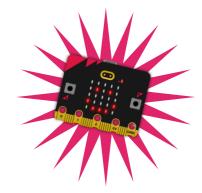
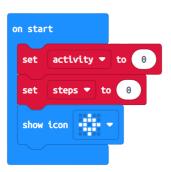
Reach for the Stars Activity







1. Create a variable for activity and steps and set a ready icon

2. Make the number of steps go up by one each time we shake the micro:bit



on button B ▼ show number steps ▼

4. Display the number of steps after pressing button

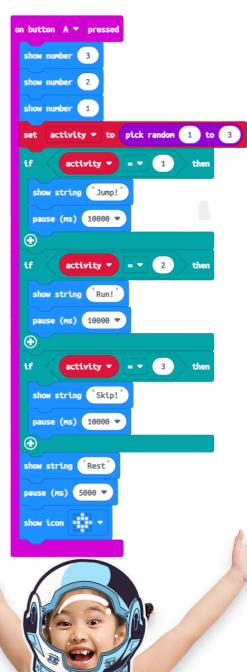
3. On pressing button A display a countdown and then randomly pick an activity. Then rest for 1/2 second and display the ready icon





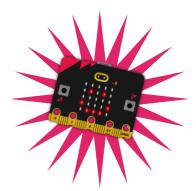
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Reach for the Stars

Activity 2



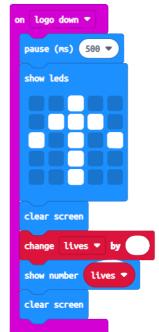
(i) instructions

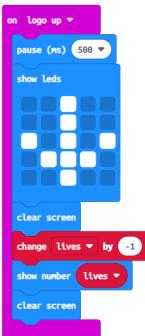


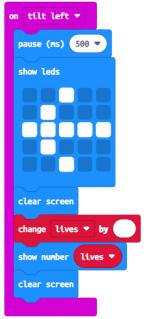
1. Create a variable for lives and set the value to 10

2. When you tilt the micro:bit up or down, display an arrow and remove a life.

Show the number of lives left and clear the arrow indicator









3. Repeat the code to detect the micro:bit tilting left or right



- Changes the number of lives to 5
- Play a sound when out of lives
- Display a X when out of lives
- Record a top score





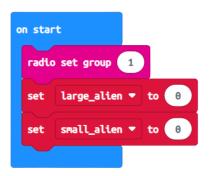
info@digitall.charity

Charitable Incorporated Organisation No 1198086



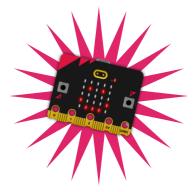
Reach for the Stars Activity 3





1. Set the radio channel (don't use 1 but choose one between 2 and 255)

Setup some variables to store the number of large and small aliens spotted



2. Send text to the other micro:bit when for a large alient (button A) or a small alien (button B)

```
on button A ▼ pressed

radio send string "Large alien"

on button B ▼ pressed

radio send string "Small alien"
```

on radio received receivedString

if receivedString = ▼ "Large alien" then

change large_alien ▼ by 1

if receivedString = ▼ "Small alien" then

change small_alien ▼ by 1

•

4. Show the value of the counter variables by pressing the A+B buttons

on button A+B ▼ pressed

show string "Large"

show number large_alien ▼

show string "Small"

show number small_alien ▼

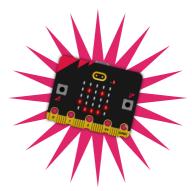
rhallenges challenges

- Get the micro:bits to send the number of medium sized aliens?
- Get the micro:bits to send the colour of the aliens instead of the sizes?
- Get the explorer s micro:but to tell base camp when they have finished exploring?
 - Get the base camp micro:bit to tell the explorer that they have received their message?
- g digitallcharity
- digitall.charity
- info@digitall.charity

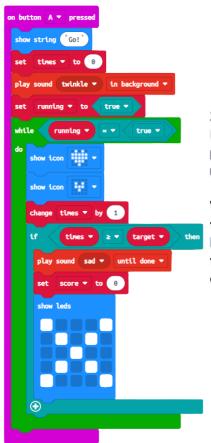


Reach for the Stars

Activity









3. On button B tell thep rogram we have reached the next base.

running yet.

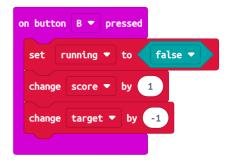
1. Set the target to 10

the program we are not

and the score to zero. Tell

Increase the score

Reduce the target time for next run



4. On button A+B show current score

2. Set the count-up (times) to 0 and tell the program we are running.

While running, check if the count-up has gone higher or equal to the target. f it has then end the challenge.

on button A+B ▼ pressed

show number score ▼



- Get the micro:bit to allow you to choose a difficulty using the touch logo?
 - o Easy Target variable is set to 20
 - Hard Target variable is kept at 10

When you press buttons A+B it shows the score and the top score

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