



# MICRO:BIT

Be prepared for success, take**TECH.**





# COMPUTER TECHNOLOGY

TEJ



# CHALLENGE 1

Flashing Heart  
Level Up - change  
frequency of the beat.





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## CHALLENGE 2

Emotion Badge  
Level Up - how many  
emotions can  
you display.





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## CHALLENGE 3

Name Badge

Level Up - Say hello to  
another MicroBit  
in French.





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## CHALLENGE 4

Dice - use the  
microbit as dice.





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## CHALLENGE 5

Look to the sky-  
Create your own image  
of the sun, moon  
and stars.





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## CHALLENGE 6

Sunlight Sensor-  
Get your MicroBit to  
light up something  
when exposed to light.





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## CHALLENGE 7

Rock, Paper, Scissors-  
Create the classic  
game on your MicroBit  
and have a game with  
a classmate.





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## CHALLENGE 8

Magic 8 Ball-  
Shake the MicroBit to  
have one of 20 different  
answers randomly  
appear on the MicroBit  
LED window.





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## CHALLENGE 9

Step Counter Level up -  
Include motivational  
messages when your  
goal is achieved.





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## CHALLENGE 10

Virtual Pet-

Code your pets face to  
show expressions.





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## CHALLENGE 11

Species Counter-  
Code your Microbit to  
help you keep count of  
the number of birds you  
see on the schoolyard.





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## CHALLENGE 12

Radio Messages-  
Send a message to a  
friend across the room.





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## CHALLENGE 13

Compass-  
Create a compass on  
your MicroBit. Take it  
outside to test it.





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## CHALLENGE 14

Soil Moisture Tester-  
Every seed packet  
provides instructions  
on the ideal moisture  
needed for optimal  
growth for the plant.





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## CHALLENGE 15

Emoji Code-  
Program your MicroBit to  
display different emojis  
depending on four  
different movements  
- shake, flip etc.





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## CHALLENGE 16

Can you create a Magic 8 Ball to ask twenty different random questions of your friend? They will need to program yes, no, maybe, next time etc. Take turns asking and answering.





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## CHALLENGE 17

Play a game of tag with friends using their own Microbit. Make the MicroBit beep when you get close to each other.





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## CHALLENGE 18

Become a DJ. Program  
the notes and beats of  
a favourite song.

Hook up a MicroBit  
compatible speaker.





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## CHALLENGE 19

Develop a heart rate monitor using the Microbit.





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# CHALLENGE 20

Check the temperature  
inside and out.

