

LUNCH TIME TECH CLUB ACTIVITIES

mBot



Sessional Workshop Activities

Activity Number	Target Audience	Name of Activity	Resources	Links
1.	First time users of mBots	Introduction to mBot Go through the tutorials that have been created via the mblocky app.	<ul style="list-style-type: none">• Mobile device• mBlock Blockly app	
2.	Grade Levels: Prep, 1 and 2 Age Range: 6-8 year olds	Balloon Battle Tape a sharp object like a wooden skewer to the front of the mBot and a balloon to back. First mBot to pop a balloon wins.	<ul style="list-style-type: none">• Balloons• Skewers (something sharp)	https://www.youtube.com/watch?v=NzpkI2FTd_k
3.	Grade Levels: Prep, 1 and 2 Age Range: 6-8 year olds	MBot Soccer Use the joy stick function to control the mBot to take the ball and score goals.	<ul style="list-style-type: none">• Ball• Goals• Soccer pitch	https://www.youtube.com/watch?v=Vr-VC8Su1UY
4.	Grade Levels: 1-3 Age Range: 7-9 year olds	Leave me alone! When picking up the mBot it will make a noise and the lights flash. Once it is set.	<ul style="list-style-type: none">• Lights component• Sound component• Sensor component	https://education.makeblock.com/resource/let-me-down/
5.	Grade Levels: 2 and 3 Age Range: 7-9 year olds	Artist mBot Code mBot to draw. Tape a marker to back of the car and draw different shapes.	<ul style="list-style-type: none">• Marker• Tape	https://www.youtube.com/watch?v=9ImOu57ygFw

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6.	Grade Levels: 3 and 4 Age Range: 9 and 10 year olds	Relay race Pick up items from the same starting point. Items are in different spots (Code the mBot to stop at the item).	<ul style="list-style-type: none"> • Selection of items • Masking tape 	
7.	Grade Levels: 4 and 5s Age Range: 9-11 year olds	Self carparking Create a car park code the mBot to self drive and park.	<ul style="list-style-type: none"> • Car park mat 	https://www.youtube.com/watch?v=cY1B3I_xV10
8.	Grade Levels: 4-6 Age Range: 9-12 year olds	Listen to My Voice Program the mBot to complete certain commands.	<ul style="list-style-type: none"> • May need extra mBot 'add ons' 	http://static.education.makeblock.com/Voice-controlled-mBot.pdf
9.	Grade Levels: 4-6 Age Range: 9-12 year olds	Simulate an ambulance Use the lights and move the mBot forward to simulate an ambulance.	<ul style="list-style-type: none"> • Lights component • Sound component 	https://education.makeblock.com/resource/mblock-examples-simulate-ambulance/ https://www.mblock.cc/example/simulate-an-ambulance/ https://www.mblock.cc/example/ambulance-sound/
10.	Grade Levels: 4-6 Age Range: 10-12 year olds	So You Think You Can Dance Code a 'dance off' between 2 mBot.	<ul style="list-style-type: none"> • Points sheet to mark the moves for each round 	http://learn.makeblock.com/en/robot-kits/mbot/singing-and-dancing-mbot/

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Project Based Activities

Activity Number	Target Audience	Name of Activity	Resources	Links
1.	Grade Levels: 4, 5 and 6s Age Range: 9-12 year olds	mBot Alarm Create an alarm with only using the sensors and lights.	<ul style="list-style-type: none">• Storyboard• Flowchart	
2.	Grade Levels: 5 and 6s Age Range: 10-12 year olds	Automatic Driving Chauffeur Create scenarios of what is needed to have successful self-driving car.	<ul style="list-style-type: none">• Storyboard (to work though criteria of a self driving car)• More than one mBot	