



Battery Maintenance & Charging

Charging the Blocks

Charging Tip:

Remove the lego adapter from your block prior to charging!



<i>STEAM Kit and Maker Kit</i>	<i>Learn to Code Kit</i>
Micro USB Charging Cables (Included in Kits) <ul style="list-style-type: none"> • 5 SAM Blocks at a time 	The orange bin has a built-in charging station
Charging Tray (Optional) <ul style="list-style-type: none"> • Whole kit at a time • Option to mount on the wall 	Students need to be shown explicitly how to carefully plug the blocks in to the orange bin: <i>Consider creating a class job for 1 or 2 students in charge of putting the blocks carefully back into the charging port</i>
Students need to be shown explicitly how to carefully plug the blocks in the charging tray: <i>Consider creating a class job for students in charge of organizing the kit or plugging blocks in if using the charging tray</i>	micro:bits can use either USB cord or battery pack (rechargeable batteries work well!)

8 hour initial charge; 45 minute full-charge afterwards
SAM Blocks last 8 hours



Block Maintenance

Charge your blocks at least **1 time every 3 months** to prevent the battery from deteriorating

What happens if my blocks are not charging or if they are lighting up **BLUE** ?

You can reset the battery by following the [Battery Reset Guide!](#)

Resetting the batteries

If a block has been charging for a long time and will not turn green, and when you take it off the charging station and it will not turn on, it is likely that there is an issue with the battery not being recognized as charged.

This can happen if the block is not charged for extended periods (6+ months).

The fix for this is to reset the battery. This can be done very easily by short-circuiting the battery by touching a conductive material on two of the points on top of the block and holding it for 3 seconds.

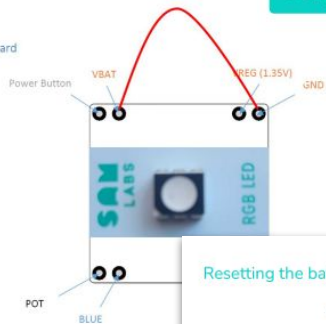
By taking, either a short wire or other conductive material like a pair of scissors, you can create a circuit between the VBAT and the GND points.

This will drain the battery and reset it.

There will not be any visible or noticeable reaction to doing this.

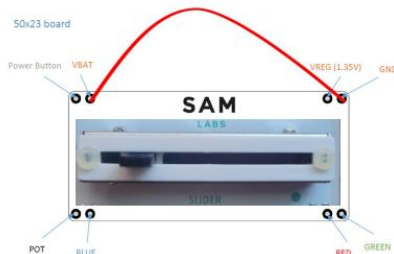
After this is done, simply charge the blocks and you are good to go!

23x23 board



Resetting the batteries

50x23 board



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Resetting the batteries

DC motor

