



Merchant Venturers School of Engineering
Outreach Programme

Drawdio

Preparation Notes for Teachers

Created by

Ed Nutting

Organised by

Caroline.Higgins@bristol.ac.uk

Published on September 13, 2016

Workshop Summary Notes

- This workshop is intended to last 1 to $1\frac{1}{2}$ hours.
- The workshops are intended for ages 9⁺ (years 5⁺).
- The content is intended to be learnt through supervised individual work, using the worksheet as guide.
- The learning platform is the Drawdio electronics kit, as developed by Adafruit.
- Students do not need to have used the kit before.
- Students do not need to have used wires, wire cutters or practiced soldering before. We will supply the required tools and materials and teach them how to use them safely.
- This document includes some notes about what you need to do to prepare for us to come and run the workshop.

1 Guide

The following notes are guidelines for the things we have thought of or know from experience need to be prepared before we arrive to run the workshop. Please use these notes as an addition to any guidelines and preparation you would normally follow.

Provision of equipment If you do not wish to buy Drawdio kits for your group, please let us know in advance. We are able to provide kits in order to run the session. If we provide kits, we will need to allow at least an additional 10 minutes for handing them out.

Risk Assessment This workshop involves soldering which means hot equipment is around. This does pose a risk to children if they are careless or left unattended. We do our best to minimise this risk, including teaching children how to use the equipment safely while still having fun. All our volunteers will have been trained in advance to spot potential risks and prevent injuries. Please remember to include low risk of hand burns on your risk assessment.

Website Access Please ensure your IT administrator has unblocked the Arduino website and our Github site: <https://github.com/MVSE-Outreach/> The easiest way to test this is to get a student (not a teacher) to open the websites and attempt to browse them.

Students with special needs We are happy to accommodate students who have special educational needs or disabilities. If you can, please make us aware of any students in the group who might need extra attention and any additional information that will help us make the workshop as enjoyable and successful as possible for them.

DBS Checks Your school or organisation may require valid DBS checks (previously called CRB checks) for our volunteers. Please let us know if this is the case so we complete the process. All of our volunteers are current members of the University of Bristol.

Name List and Contact Information We would very much like to be able to keep in touch with students to encourage them to attend our other free, open outreach events (such as Digimakers). If possible,

please supply us with a list of the names of students and their parent's contact information so that we may follow up with them after the last workshop. We never send spam and we'll only contact parents to let them know about our other outreach events that are available to them.