A 30 minute video on how to make DIY lab equipment to accurately measure volume and mass data while performing experiments at home can be accessed using the link below. <https://drive.google.com/file/d/1hKY-l-n3ionODk5nZ1fWaIoqKTrvDkFL/view?usp=sharing>

A guide to the information presented in the video is shown in the table below, including a time stamped map to allow you to quickly navigate to specific procedural steps.

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| --- | --- |
| **Time Stamp (minutes:seconds)** | **Procedural Steps** |
| 0:00 – 2:20 | Introduction and Mark’s contact information |
| 2:21 – 3:30 | Using my eBoard page |
| 3:31 – 5:04 | Qualitative experimentation reaction grids |
| 5:05 – 6:54 | Precision vs. Accuracy in measurements |
| 6:55 – 8:26 | Significant Figures in measurements - length |
| 8:27 – 11:27 | Measurements with burets |
| 11:28 – 14:38 | Measurements with volumetric flasks and graduated cylinders |
| 14:39 – 16:56 | Serological pipets for volume measurements |
| 16:57 – 20:24 | Graduated soda straws for volume measurements |
| 20:25 – 22:36 | Beral pipets for volume measurements |
| 22:37 – 23:27 | Baking utensils for volume measurements |
| 23:28 – 26:53 | Mass measurements with common product ingredients |
| 26:54 – 27:59 | Mass measurements with a jeweler’s balance |
| 27:60 – 31:18 | Common Sources of Chemical Lab Supplies |
| 31:19 – 32:00 | Using Vernier’s Graphical & Spectral Analysis Apps |

Just the Powerpoint that was used to create this video can be downloaded from the link below.

<https://drive.google.com/file/d/16AfvaecMMOpDbixux3cCa3pMLyaCLd8o/view?usp=sharing>