**3D Printer: Print Assessment Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**NOTE:** Those of you have have 3D printers or significant previous experience please watch and listen and allow those who are new to this the opportunity to learn and experience. I would welcome any comments that you might have to improve this lab experience.

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|  | **TASK** | **Notes** | **Check** |
| 1 | **Print Settings**  Document Slicer/print settings  Layer Thickness\_\_\_\_\_\_\_\_\_  Print Speed\_\_\_\_\_\_\_\_\_  Brim/No Brim\_\_\_\_\_\_\_\_\_\_\_\_\_  Print Time\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Filament length used:\_\_\_\_\_\_\_\_\_\_\_\_\_  Print Modifications: (layers, perimeters etc)  G-Code Modifications: |  | ❏  ❏  ❏  ❏  ❏  ❏  ❏ |
| 2 | **Visual Inspection**  Describe any observed features or problems:  Did the print complete successfully?  Can you see any blobs or gaps in the print?  Is there evidence of bridging problems?  Are any surface details clear?  Is there any apparent ‘stringing’?  Were there bed adhesion (bird nest) problems? |  | ❏  ❏  ❏  ❏  ❏  ❏ |
| 3 | **Dimensional Inspection (Hollow Cube)**  Using measurement tools (dial calipers) verify known dimension as well as consistency of repeated features. Note design dimension as well as measured dimension.  Dimension 1: Design: 20 mm Print:\_\_\_\_\_\_\_\_\_\_  Description: x width  Dimension 2: Design: 20 mm Print\_\_\_\_\_\_\_\_\_\_  Description: y width  Dimension 3: Design: 20 mm Print\_\_\_\_\_\_\_\_\_\_  Description: z height  Dimension 4: Design: 2.7 mm Print\_\_\_\_\_\_\_\_\_\_  Description: cross bar width bottom  Dimension 5: Design: 2.7 mm Print\_\_\_\_\_\_\_\_\_\_  Description: cross bar width top |  | ❏  ❏  ❏  ❏  ❏ |
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