

Innovation Diploma
Classroom Maker Kit - Year 1

Guidelines & Constraints:

- Supports Design Foundations Class
 - low res prototyping
 - paper prototyping
 - basic digital prototyping
- Excludes computers & software
- Budget 3-5K

Maker Kit for Classroom:

- Cricut Vinyl Cutter \$150-200 each
- Foamwerks Foam Core Tools \$100 for set
- Sewing Machines \$150 each
- Monoprice 3d Printer \$220 each
- Introductory Electronics:
 - Makey Makey Circuit Boards \$50 (circuit intro)
 - Chibitronics \$40 (led light programming)
 - Circuit Playground or Microbit \$25 (versatile circuit boards, lights and sensors)
 - Accessories: alligator clips, leds, batteries
- Basic hand tools
- Glue guns & glue sticks
- Scissors
- \$1000 for consumable materials for the year
 - Foam core, cardboard, papers, foil
 - Sticks, pipe cleaners, etc.
 - Tape, glue, clips
 - Sharpies

- Post-its
- Fabric
- Vinyl

Other considerations:

- Vertical space for drawing and ideation (white board or windows)
- Storage bins and racks for tools and materials
- Professional development of teacher

Some nice to haves / Year 2 Add Ons:

- If the budget is 5k, it is worth it to invest \$2500 in Glowforge Basic Laser Cutter, even in year 1.
- GoPro cameras