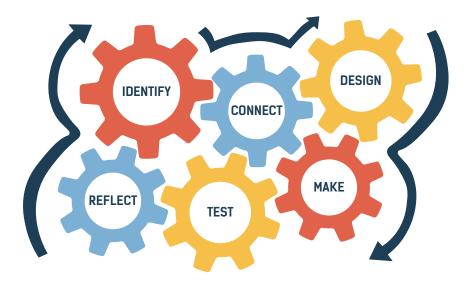
MAKERSPACE COURSE PROJECTS: The Design Process



All makerspace faculty structure their course projects around some type of design and making process. Here at BeAM, we like to use the one to the left - it reflects the iterative nature of design and making, allowing you to bounce back and forth through different phases depending on what your project goals are. Below, you'll find a description of each phase and a few example assignments that correspond to each phase.

IDENTIFY	CONNECT	DESIGN	MAKE	TEST	REFLECT
Students build foundational skills/ knowledge to inform their project.	Students connect their foundational knowledge to how it informs their design.	Students turn their ideas into designs for review and fabrication.	Students make a physical version of their final project.	Students get feedback on their project's look and function.	Students reflect on their work and their design process.
This could include:	This could include:	This could include:	This could include:	This could include:	This could include:
Reading articles Watching films BeAM tool trainings Practicing with design software	 Forming a research question Identifying a theme to investigate Brainstorming ideas for projects Creating lists of project needs or specifications 	 Submitting design sketches for peer feedback or instructor review Writing design docs that connect design to fabrication (e.g. materials to use, etc.) 	 Making low-fi prototypes out of everyday materials (cardboard, etc.) Making higher resolution prototypes using tools (e.g. Laser Cutter, 3D Printer, etc. 	 Having small-group design critiques Students using rubrics to assess draft work Develop tests and collect data on prototypes through experimentation 	 Doing a gallery walk or "science fair" Presenting either in class or through online videos Writing reflection papers that explain design choices and connections to course content