

Design and Discovery

Making, Modeling, and Materializing

These sessions prepare students for making a model of their design idea. In Session 10: Bicycle Breakdown: Systems, Components, and Parts, the bicycle is used as an example for helping students think about the systems in a product and how to identify the systems, components, and parts of their own project ideas. In Session 11: Design Requirements and Drawings, students develop design requirements for their projects and draw their ideas in order to help them plan their models. Session 12: Planning for Models and Tests, further prepares students for building their models as they think through materials and consider the principles of collapsibility. Session 13: Making It! Models, Trials, and Tests is a model-making working session.

