MATERIALS BLOCK

In this section we sought to show the optimal material properties necessary for our design. A materials block was added because it broadens the scope of what we need for the basis of our design past just temperature control. The aspect of temperature control, however, plays an important role in our design and to achieve this we thought a plastic/fabric insulation material would be the best choice, hence the two sub-blocks feeding into temperature control. The material composition of the components has a direct effect on form.

FORM BLOCK

In this block we wanted to take our optimal materials we choose and fit them to ideal properties to solve the concerns with feasibility and shape. We needed something that could fit the shape of the typical backpack as well as a container that could account for a diverse assortment of food. The plastic material would exist at the food interface and the fabric would surround this plastic “Tupperware” and conform to the backpack morphology.

FOOD BLOCK

Inside the food block we have the intention of first looking at the food which is available at a convenient location as an input and then take that further to developing recipes using that food. An important concern for the food block is having something that will fit into the container and properly interact with the material interfaces (reduce molding, stay at constant temperature). This solution block will directly feed into the form block.