

## Workshop 2: Architectural Modelling

**Overall objective:** to apply the creative process for exploring forces and tensions in materials and structures using a single sheet of Bristol paper as an architectural modelling tool.

### **Activity:**

#### Preparing the Bristol paper:

- Draw a rectangle on the Bristol paper with 1cm margin all around.
- Using an exacto knife cut the long sides of the rectangle.
- Between these two cuts, continue cutting parallel lines of the same length with 1cm distance between them

#### Exploration of form, volume and forces:

Explore how the cut strips open up as you bend or twist the paper in various directions, observing the forces and tensions in the material at play. No further permanent transformation such as creases, folds and the likes are allowed. The paper must recover its original flat form after each exploration.

#### Architectural modelling:

After getting familiar with the various forms, the paper can take, use it to model a community centre. Imagine you are an architect pitching your idea on a meeting to the city council and your only tool is this sheet of paper to visualize your ideas. The form you create should be inspired by how you imagine the functions of a community centre, how people engage with the space, the play of light and shadows, the scale of the structure, etc. You can use paper clips to hold the structure together.

#### Presentation and Reflection:

Present your work to the group (or class) and explain your ideas and choices in design and how they serve the function of the building. What materials would you use and why if the building indeed would be built?

*(Note: we will not have time for everyone to present their work and reflect on their choices in design, but this is an important part of the creative process.)*

### **Possible extensions in the classroom:**

Instead of Bristol paper, you can try using other materials like very thin, flexible brass shims or 1/64" thin craft wood and see what happens.

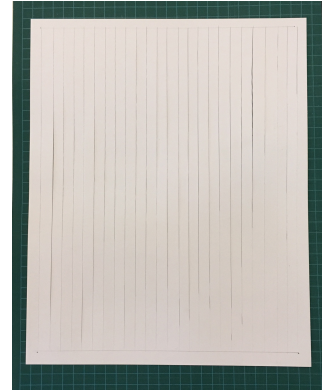
### **Curriculum connections:**

The Arts: Creating and Presenting: apply the creative process (see pages 19–22 in the curriculum) and Reflecting and Analysing

Science and Technology: Structures and forces

### Materials and Tools:

- Bristol paper, at least 11x14" or larger. Can be purchased at Staples or art supply and craft stores
- Exacto knife



### Sample explorations with the Bristol paper:

