

Makerspace Session: LEGO Creative Brief



Session Length: 45mins-1hour

Aims:

- Using LEGO building bricks, this session will allow the students to create something from a vague brief, encouraging creative thinking and soft employability skills within a time limit. This will lead to a collaborative task, improving communication skills and laying foundations for further learning in creative coding with LEGO Boost and Mindstorm.

Set up:

Ensure that the LEGO Building Prompts Resource sheet is printed, cut into squares, folded and placed into a hat/box prior to session for students to pick out.

Set up sections/handfuls of LEGO for students – have extra LEGO available for the further along tasks

Equipment:

- LEGO Classic Bricks and Animals Large Set (1500 Bricks) - any variation of LEGO set or bricks can be used for this session.
- [LEGO Building Prompts Resource](#) – to print.
- A4 paper
- Felt tips
- Box/Hat - for prompts to be picked out of.
- Optional: Digital [Intro](#) and [Exit](#) Forms

Structure:

Session Introduction (5mins):

Once the equipment and room are set up, students will be seated around a large table with piles of LEGO classic bricks in front of them – as well as paper and pens. This will allow us to understand their knowledge and skills prior to the session. Ask the students if they have used LEGO before and are familiar with how to use it. Give a brief overview of the LEGO.

Optional - ask students to complete a digital intro form.

Task 1 (5mins):

Put students into pairs. They will then be asked to write down something they could possibly make out of LEGO on a piece of paper. This will be added to the hat/box that students choose their prompts out of.

Task 2 (5mins):

Individually each student will be asked to choose a piece of paper from a hat/box. The pieces of paper in the hat/box will have written design prompts on them. The prompts are intentionally vague in order to allow the participants to use their creativity. Once they have chosen their prompt, they will be given 5 minutes to brainstorm on a piece of paper what they would like to build.

Task 3 (15mins):

Allow 15 minutes for students to create their design using the building bricks laid out in front of them. They will be given complete creative freedom and can use as many colours and bricks as they wish.

At the 8-minute mark each participant will be encouraged to give their partner some constructive feedback on their piece and how they could improve it during the final part of this task and vice versa.

Task 4 (15mins):

They will then be asked to merge their creations together in order to create a hybrid piece in partners. They will be given additional LEGO to do this. This will allow for the students to use critical thinking and innovation. The first 5 minutes of this task can be used for designing and brainstorming.

Task 4 (5mins):

At this point the final collaborative products will be revealed to the class and they will be asked to reflect on the session. Ask the students to explain how they merged their final creations and why they've kept certain elements of each individual piece.

Optional - students will now be asked to complete a digital exit form for feedback on the session.