



01

VISUAL RESEARCH SUMMARY | OBJECT

# 01

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This project has 5 pieces:

- 1 sketch book;
- 1 CD (inside Book 1);
- Book 01: Visual Research Summary, Object;
- Book 02: Visual Research Summary, Context;
- Output: 1 book.

The Unit 1.3: Research Methods 1 is co-ordinated and integrated into the Unit 1.1: Design Literacy.

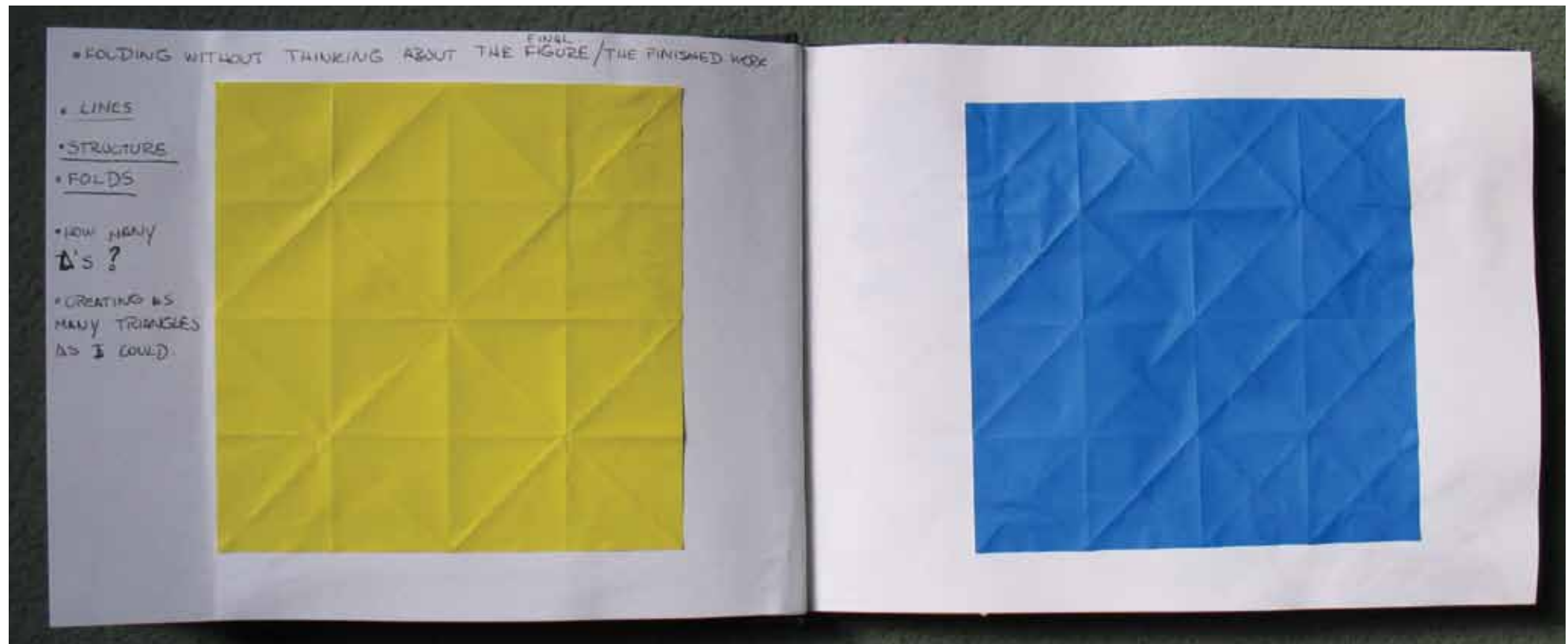
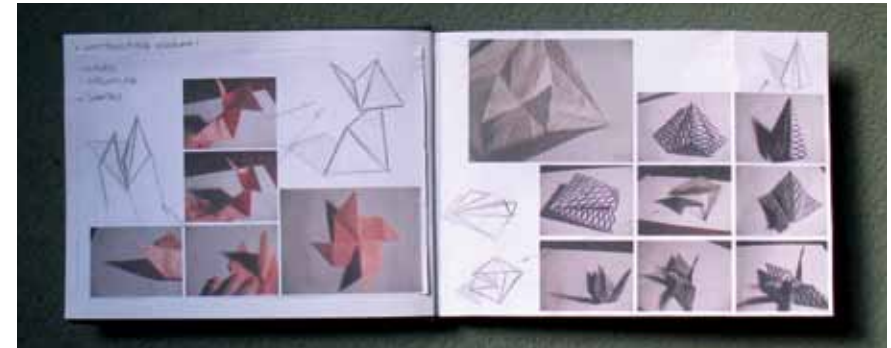
## RESEARCH METHODS 01

### OBJECT OF EXPLORATION: TRIANGLE

I started the investigation by constructing origami. Normally, the design starts from a square sheet and through lots of triangular folds you can create different designs. I was investigating the structure; the shapes and lines were created by folding triangles.

At some point, I realised I could create interesting patterns with the lines (folds) without the need for constructing the final figure.

After these first experiments, I developed a series of ideas documented in the sketch book, which led me to the next exploration.



## EXPERIMENTAL VIDEO 1

Through my research into the object I found myself interested in generative art and conducted several experiments to explore this. The original idea was to make the triangles evolve from other triangles with some degree of autonomy. Not having the technical ability to create computer software algorithms to do this I decided to see how I could generate triangles from the world around me.

I decided to photograph light utilising a cut-out aperture disc. In this low-tech experiment I placed the triangular aperture disc and positioned it inside a Lensbaby (creative lens). I lit a running tap with a torch and videoed this with the camera positioned at a 90° angle (so that in the video the water runs from right to left). Filming at 60 frames per second allowed me to slow the footage down to see some really interesting triangle formations.

What was really interesting for me was how I could get a fairly sophisticated output from utilising low-tech means – something that became more interesting in itself than the original idea of generative art that led me to experiment in the first place. **(see video 1 on the CD)**



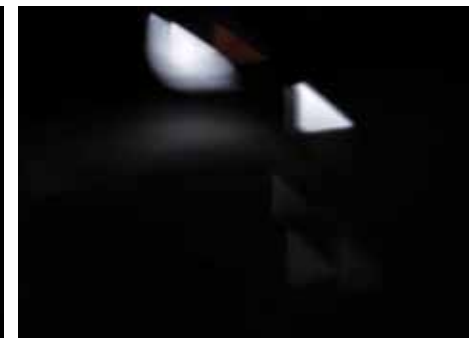


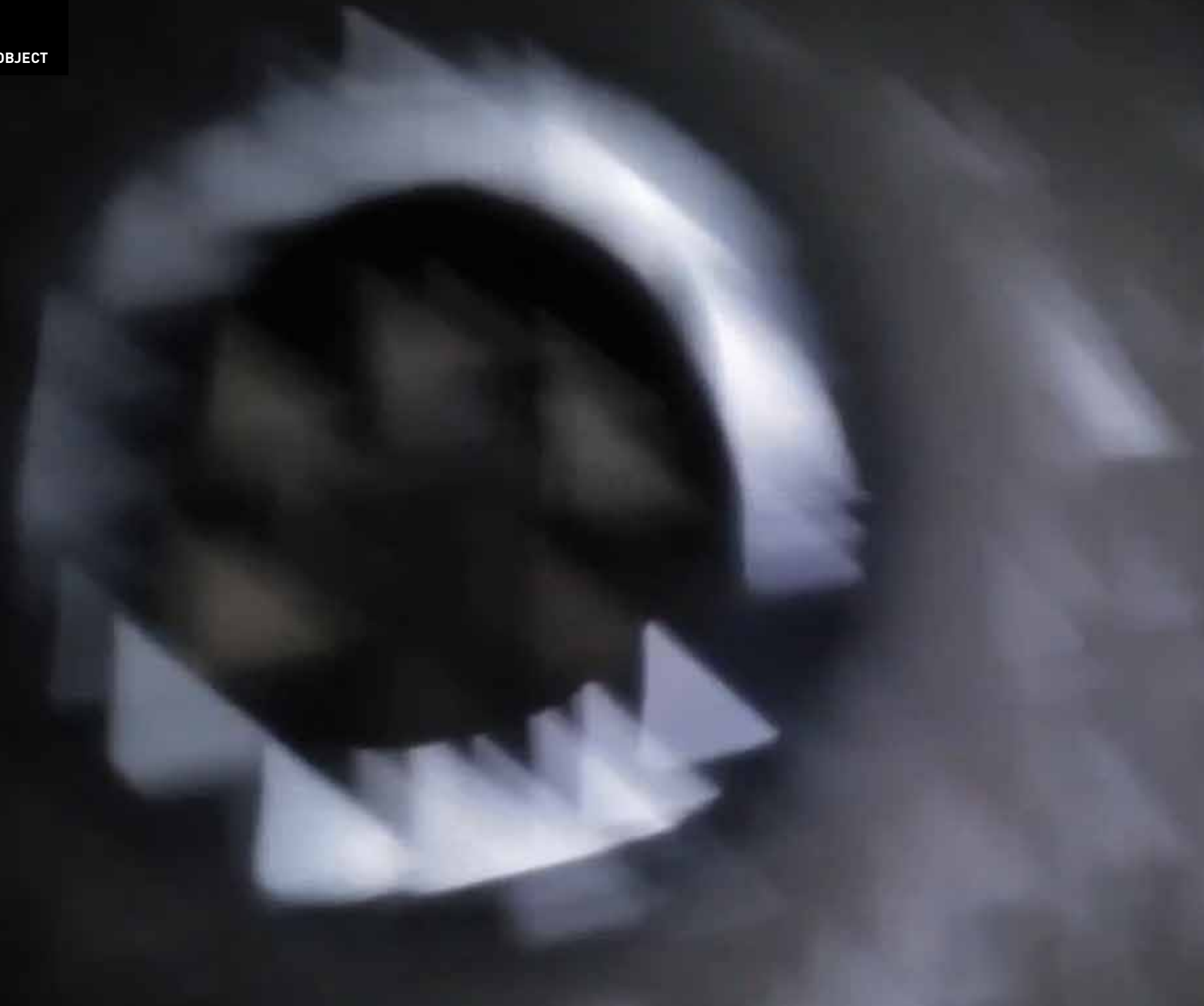
## EXPERIMENTAL VIDEO 2

Following on from the first filmed experiment I wondered if it would be possible to distort something with a distinct and recognised form into a triangle. I had the idea for bubbles in a bath – something both recognisable and generative.

With the bubbles catching the light in a similar way to the water from the tap, the circular forms were transposed into triangular forms. When I pulled the bath's plug and the water and bubbles drained away the speed of the movement created more arrow-like shapes.

The technique used is similar to the first experiment, except that this time I moved the camera around. **(see video 2 on the CD)**

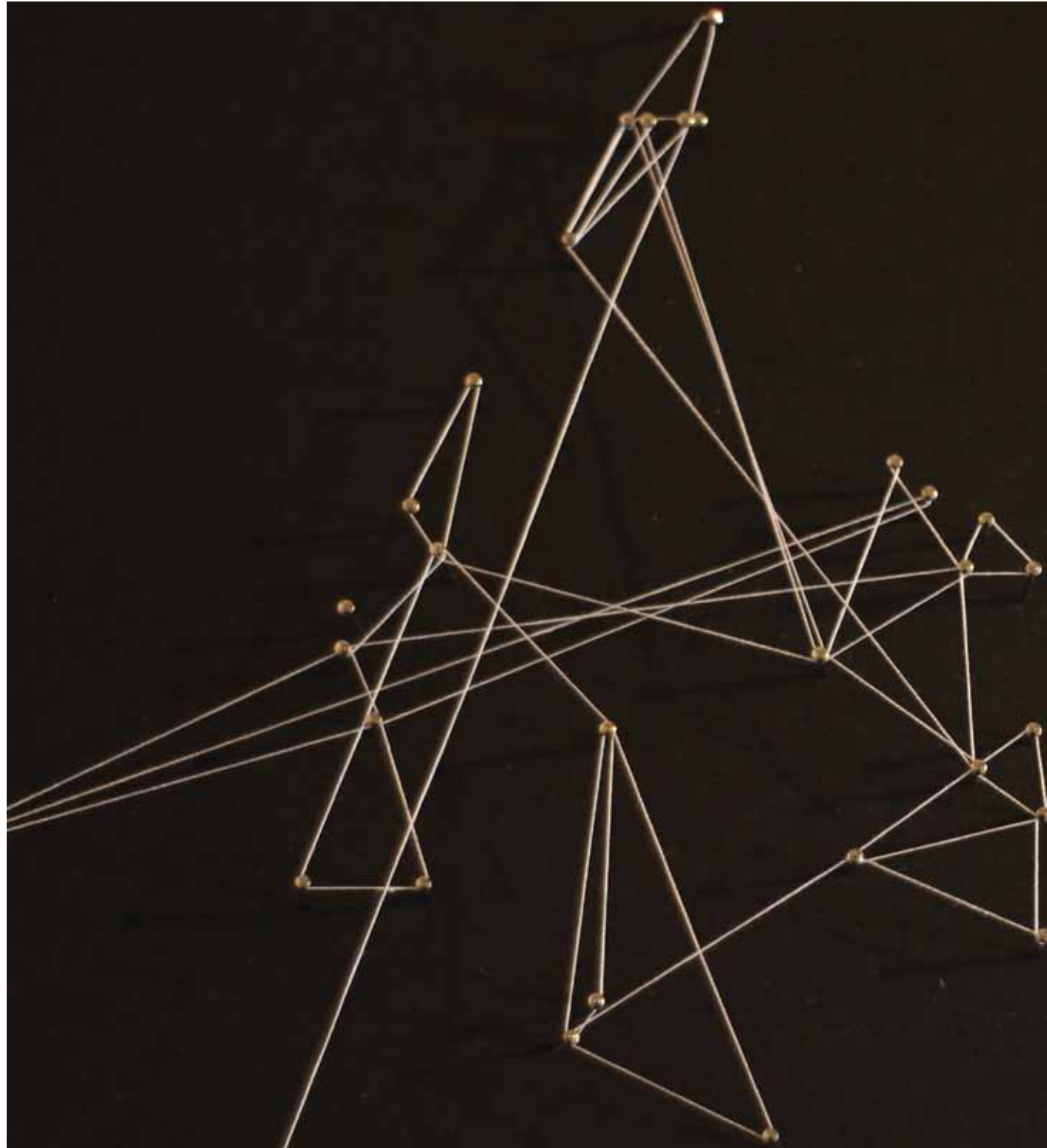




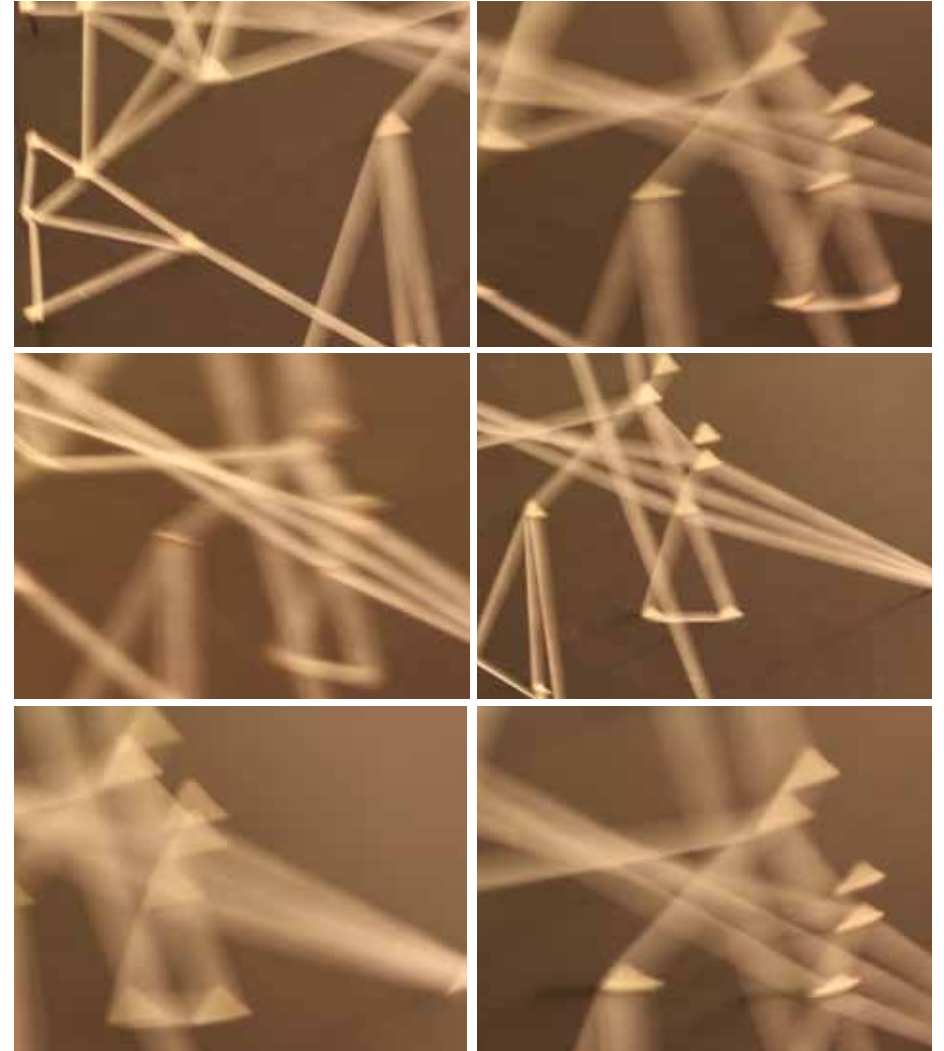
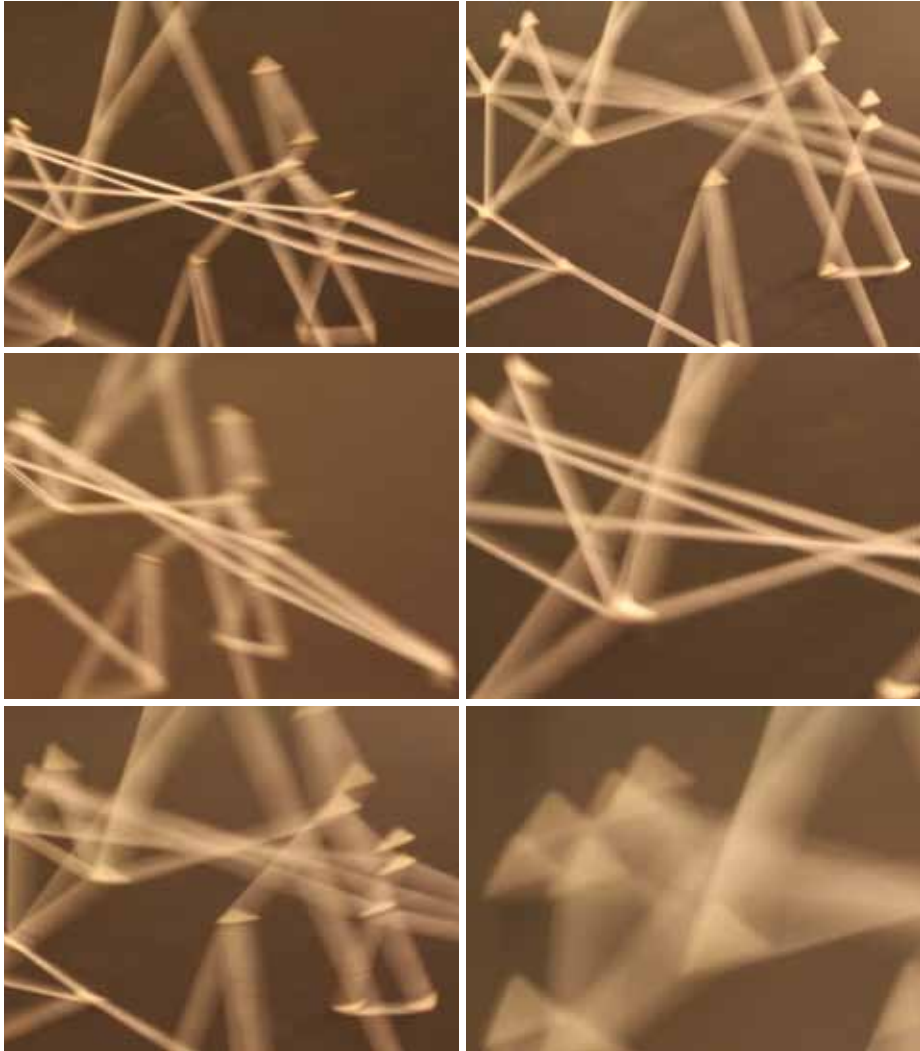
Inspired by images of antennas (below), the idea of this experiment was to create a mesh of triangles (not so ordered as with the antennas) using points and lines (opposite page).

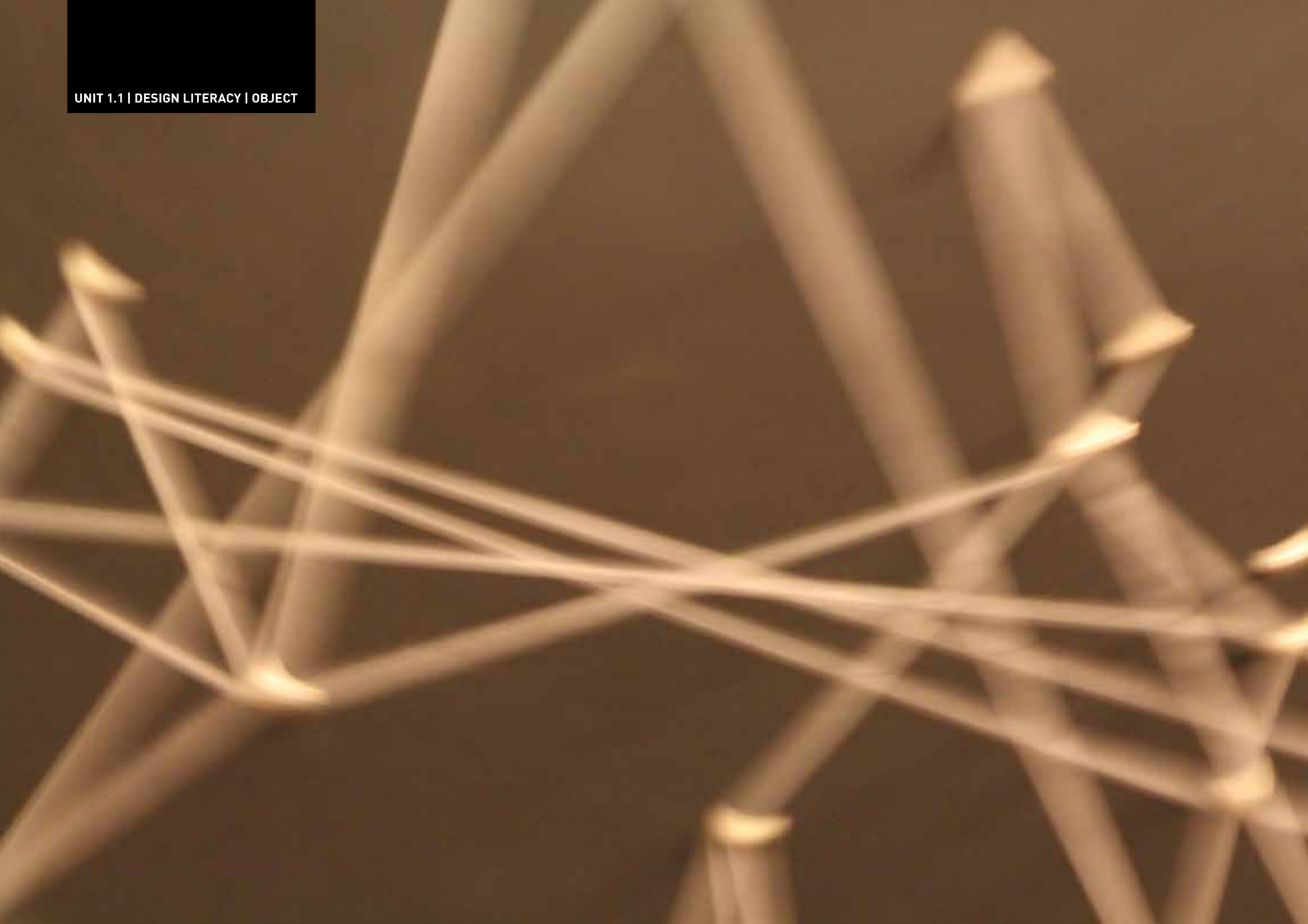
The materials used were cotton thread, pins, and a board.

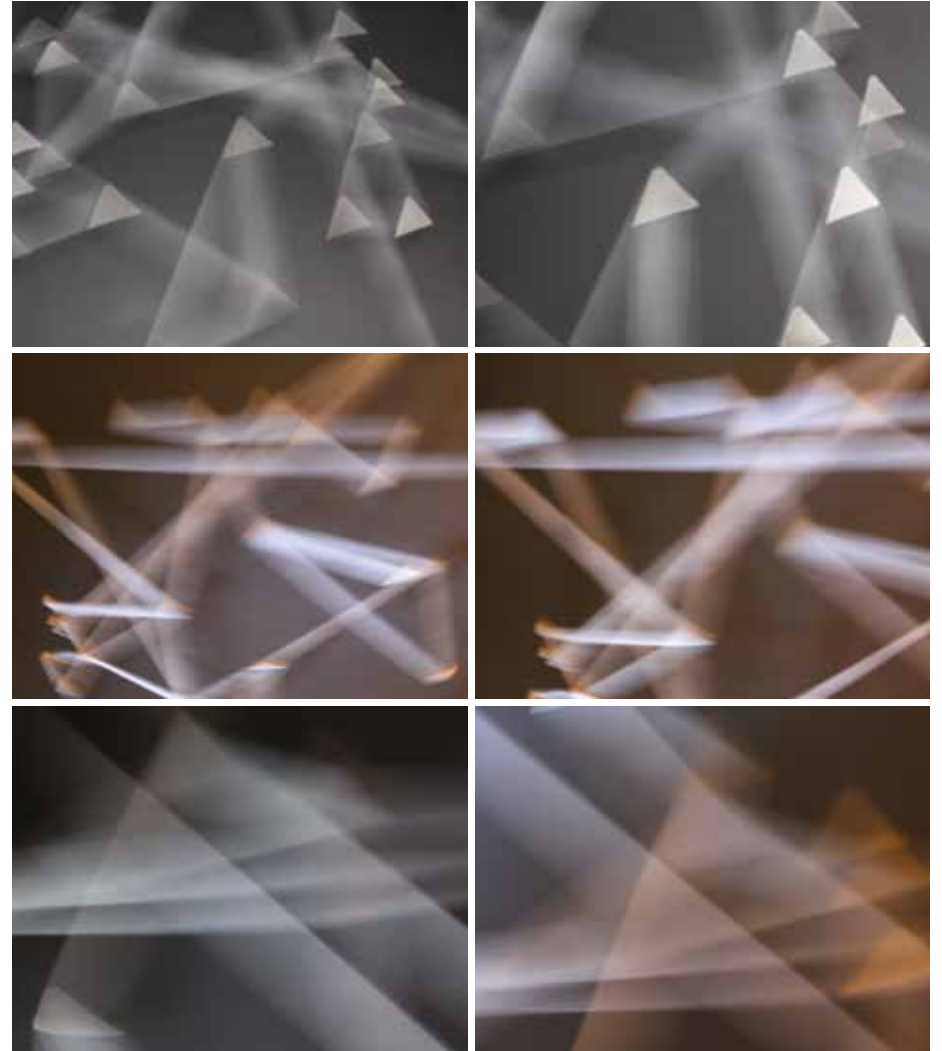
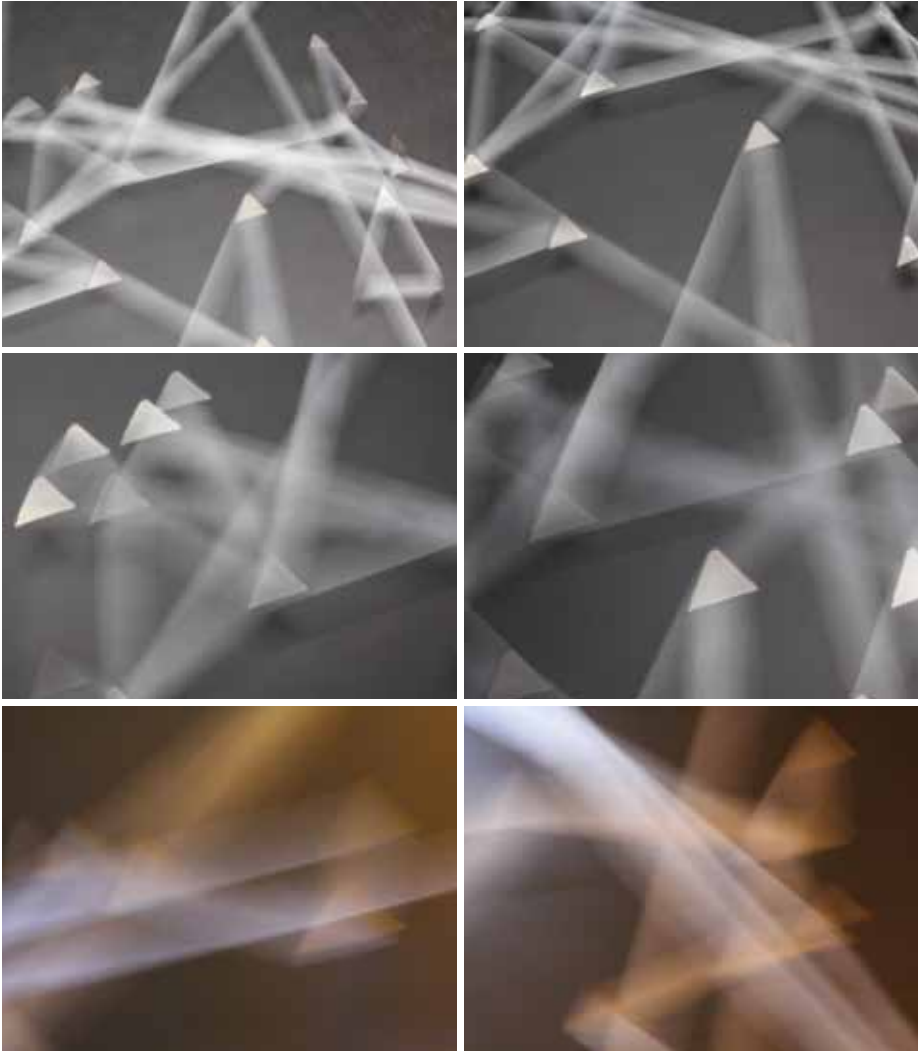
After this experiment, I decided to photograph the pin-board using the camera with the triangular aperture disc. This produced surprising results with the rounded pins becoming triangular. The photographs can be seen over the next few pages.





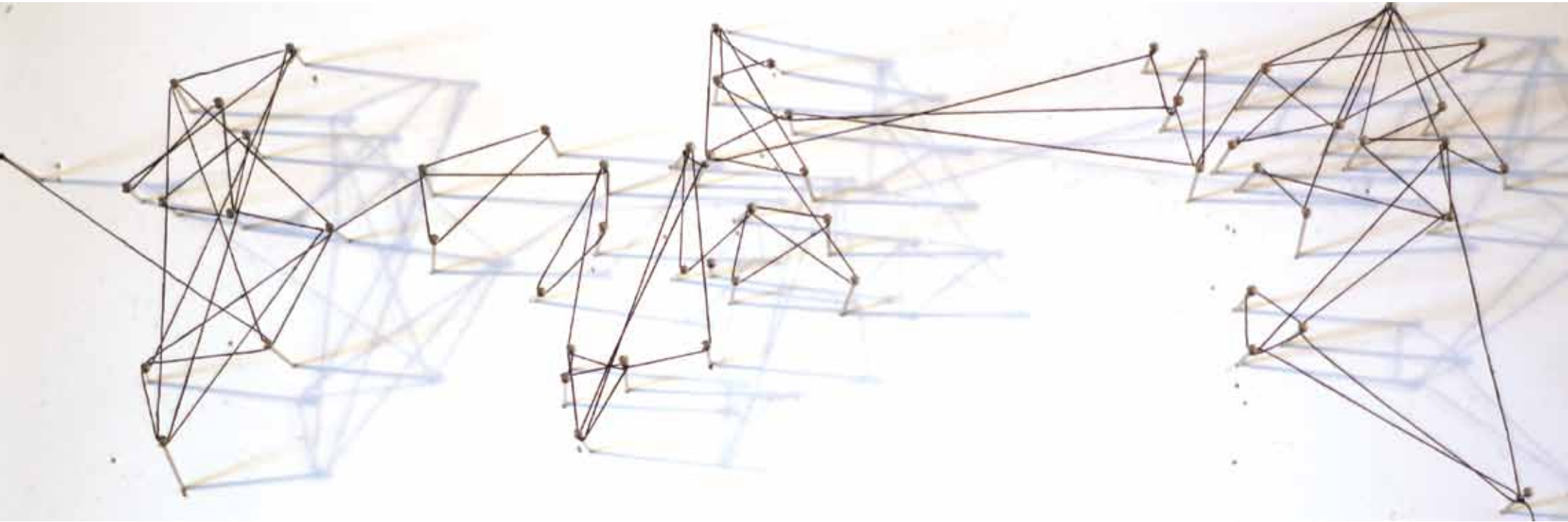








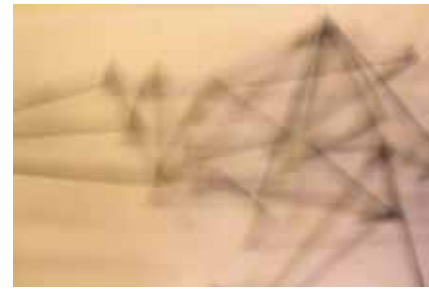




I created a second pin-board on white card just to see the effects of black cotton against a white background and this time I also photographed the antenna photos.

The photographs can be seen over the next few pages.







**EXPERIMENTAL VIDEO 3**

Finally I decided to film the pin-board using the camera with the triangular aperture disc and different coloured lights. **(see video 3 on the CD)**





