

Harmonography - Workshop Activities

Lissajous Mirrors - demonstration and limited participation (Primary age upwards)

- Acoustic using string/mirrors apparatus
- Electric using mirrors attached to two vibration generators and signal generators
- Photographs

Harmonograph - Pendulum drawing (Primary age upwards)

- Various kinds of harmonograph with weighted string or metal tube pendulums
- Harmony drawing - ink on (prepared) paper/acetate. Light trails (photographed)

Pendulum Painting (Primary age upwards)

- String pendulum with weighted paint pot
- Harmony painting - paint or sand on paper

Pendulum engraving (Primary age upwards)

- String pendulum with weighted plumb bob
- Harmony engraving - in sand
- Taking a cast of engraving

History

- of the harmonograph and it's creator
- Harmonograms in art and graphics

How does it relate to science, visual art and sonic art

- **Science** - creating lissajous curves with pendulum drawing machines (slow vibrations); pendulum science
- **Sonic art** - sound art and artists who use harmonographs
- **Visual art** - shapes, patterns, symmetry.

ARTISTS: (links to practitioners and artists - visual and sonic - for inspiration)

Visual artists: e.g. Jackson Pollack, Max Ernst, Conrad Shawcross