

Methodical Drawing

This is the first of six resources in the series: ['Drawing for Science, Invention & Discovery Even If You Can't Draw'](#) by Paul Carney, educational consultant and author. The projects enable teachers of both art and science to approach drawing from a new perspective. You can see all of the resources [here](#).

[By Paul Carney](#)

Introduction: This activity demonstrates why scientists need to record and catalogue large amounts of complex information. It also shows you how and why drawing can help us to better understand the objects we are studying and the importance of organising and sorting information.



Notes for Teachers

• Learning Objectives

- To understand that large amounts of complex

information must be organised.

- To learn how drawing can help us better understand things we are studying.

▪ **Age Range**

The activity is suitable for 7-16 years.

▪ **Time Required**

The activity takes approximately one hour

▪ **National Curriculum Targets: Art & Design**

Key stage 2: Pupils should be taught to develop their techniques, including their control and their use of materials, with creativity, experimentation and an increasing awareness of different kinds of art, craft and design. Pupils should be taught to:

- create sketch books to record their observations and use them to review and revisit ideas.
- improve their mastery of art and design techniques, including drawing.

Key stage 3: Pupils should be taught to:

- increase proficiency in their execution. They should develop a critical understanding of artists, architects and designers, expressing reasoned judgements that can inform their own work.
- Use a range of techniques to record their observations.

▪ **National Curriculum Targets: Science**

Lower Key Stage 2: Making systematic and careful observations.

Upper Key Stage 2: Recording data and results of

increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.

Key Stage 3:

- Make and record observations and measurements using a range of methods for different investigations; and evaluate the reliability of methods and suggest possible improvements.
- Present observations and data using appropriate methods, including tables and graphs.
- Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.

GCSE and A Level Science subject content: Develop and demonstrate a deep appreciation of the skills, knowledge and understanding of scientific methods.

• Things You'll Need

Plain paper, fineliner pens or pencils, popcorn.

• Extending The Lesson

Increase the challenge by adding more popcorn to study.

• Supporting The Lesson

Limit the number of popcorn and suggest working on squared paper.

• Assessment Guidance

How can you tell if they have correctly identified the popcorn to the correct drawing? Maybe peer review would help this process.

• Artist Links

Look at the drawings of contemporary artist Becky Allen

<https://www.beckyallen.co.uk/>

• Cross-Curricular

Ask them to think about how complex data is recorded in other subject areas. Can they think of where this technique may be useful? (Such as Geography when studying rock formations).

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AccessArt is a UK Charity and we believe everyone has the right to be creative. AccessArt provides inspiration to help us all reach our creative potential.

Serendipity Drawing

Rowan : Clay Coiling Techniques to Make Penguins, Tweety Pie and a Dalek too!

Artist led facilitation in a setting for adults with learning disabilities; Abi, Sarah and students show how they made clay birds using clay coiling techniques and with a plaster mould for the birds' bases.

Simple Easter Sketchbook

Perseverance, Determination and Inventiveness: Building Nests

Year 4 pupils from Comberton Village College and Cambourne Village College feeder schools met for a Gifted and Talented Sculpture Masterclass led by AccessArt at Bourn Primary Academy. The session centred around an exploration of the materials and construction methods we might use to build inventive, sculptural nests.

Playing with tape, projectors, Wicky Sticks and so much more!

Accessible approaches for collaborative drawing with visually impaired students with Sara Dudman and Debbie Locke at the Thelma Hulbert Gallery in Devon

Astronaut Paper Body Casts by Gillian Adair McFarland

A non messy, big impact project in a day on the theme of space exploration to fit with Tim Peake going to the International Space Station.

#CreativeJourneys

Water and Rock: Teenagers

explore building drawings with graphite and modroc

Teenagers look at pieces of chalk and flint and explore the physicality of rocks and geological processes with graphite and plaster.

Barbie & Ken Transformation

This adaptable resource shares how we transformed Barbie dolls using paper, fabric, modroc and paint. We had great fun researching and designing costumes and exploring appropriate materials. By Paula Briggs

Year 3 & 4 Making Club: Animal Parade – Week Three

This was the third and final session in a series of 'Animal Parade' workshops for children at Making Club at Milton Road Primary School where children painted their finished masks

Year 3 & 4 Making Club: Animal Parade – Week Two

This was the second session in a series of three 'Animal Parade' workshops, where children at Making Club at Milton Road Primary School, made 3D animal masks.

After having chosen their animals and created unique designs based on their Carnival Mask Templates in week one, children now attempted to cut and staple their creations to make them three dimensional.

Teachers Start the New Year with Sketchbooks

AccessArt introduces teachers from English Martyrs Catholic Primary School in Worthing, whistle stop introduction to drawing and sketchbooks as tools for recording and thinking.

Year 3 & 4 Making Club: Animal Parade – Week One

To use our Carnival Mask Template to create animal masks for an Animal Parade at the end of this half term.

Drawing Flames

Teenagers are led on several guided drawing exercises exploring mark making to the rhythm of a burning flame.

Long Legged Animals by Years 3 & 4 Making Club

Year three and four pupils explore making their own sculptures and to take on sculptural challenges like how to construct with a variety of materials, including Modroc, and (most importantly) how to make their creations stand.

Life Drawing: Using Tone by Hester Berry

Life Drawing: Understanding

Foreshortening by Hester Berry

Life Drawing: Drawing Hands and Feet with Hester Berry

Shipwrecked! A Shadow Puppet Play by Children Aged 10

As the winter nights draw in and it was dark outside and cosy inside, Friday Club students, turn the summerhouse into a theatre and make a shadow puppet play.