

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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Serendipity Drawing

#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

Drawing Flames

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

Paperback Figures: Collaged, Relief Sculptures

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Visual Arts Planning Collections: Cardboard and paper



Book art with Primary children



Making 2d & 3d Fashion Designs with Painted and Decorated Paper



3D Drawing with Paper:

Texture – Surface – Structure

Artist Andrea Butler sets teenagers the challenge to create 3D forms from sheets of paper experimenting with structure and texture using manipulation techniques.

Bold Autumn Still Life

Teenagers engaged in creating bold still life drawings

Life Drawing: A Collection of Resources by Hester Berry

How to Run a Life Drawing Class



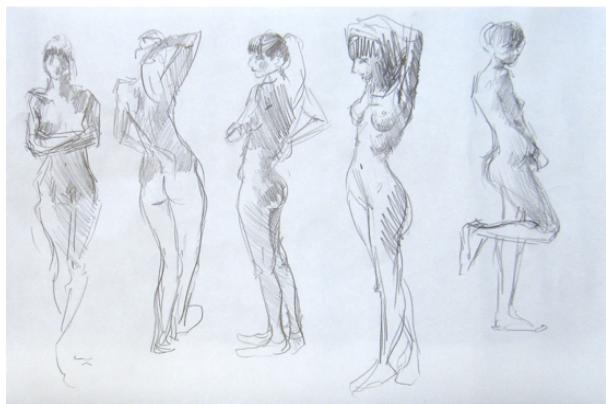
[Introducing Hester](#) and providing an overview of how Hester sets up and facilitates a life class.

An Introduction to Life Drawing



Getting started with life drawing and some simple warm-up exercises to help you become familiar with your drawing materials and the life model.

Capturing gesture



Hester provides some helpful advice along with a series of short drawing exercises, that will enable you to identify the essentials of a pose and successfully record the movement and gesture of the life model.

Drawing the head



Drawing faces can be daunting, but Hester explains how you can tackle them successfully using simple and logical steps.

drawing hands and feet



Hands and feet are tricky subjects and often get omitted because the forms seem too complicated to draw. Hester shares a secret shortcut to understanding and drawing these complex forms ...think mittens and socks!

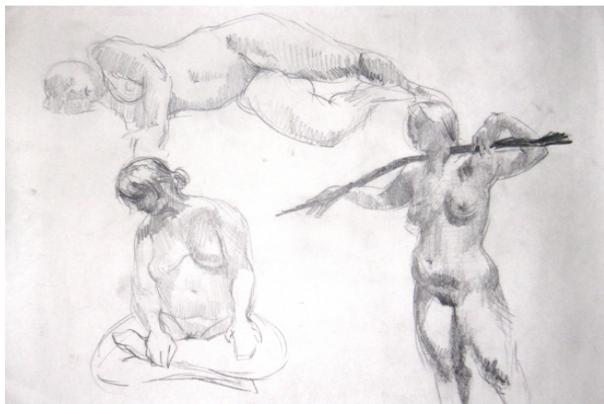
Understanding Foreshortening



When drawing the life model, it can be difficult to process your view of a 3D form into a 2D

representation. Hester explains clearly and concisely how to successfully achieve a foreshortened figure to create the illusion of space in your drawings.

Using Tone



[Hester](#) explains how to use tone effectively to give your drawings more definition and an increased sense of volume and suggests ways of using tone when drawing short poses, that will build your confidence and skills.

Introduction to Life Drawing with Hester Berry

Paper Pigeon Project

Teenagers Improvise a Shadow Puppet Play

Enjoy following how the saga of a lion., a dog, a goat, a stegosaurus, and an 'animal fairy', told by Sophia and improvised by this creative 'Experimental Drawing' team

Cantus Arcticus (Concerto for Birds and Orchestra) Op.61: Images Inspired by Music

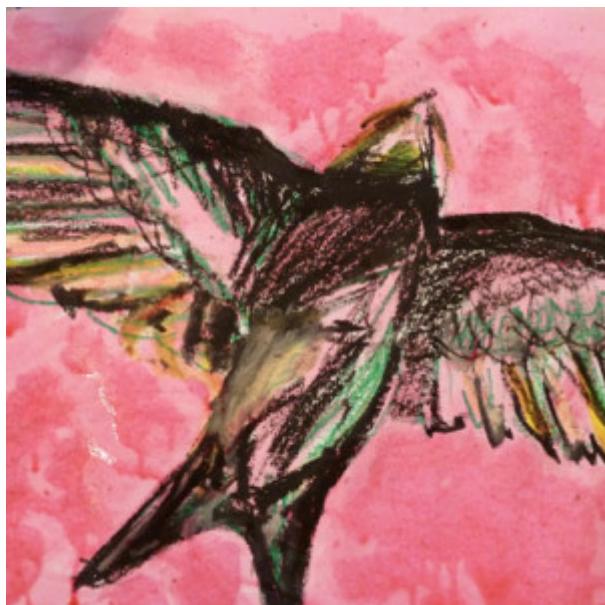
How to Make a Simple Origami Bird by Melanie Johns

Melanie Johns suggests using origami to transform old artwork. It's an exciting way of using less successful drawings or paintings on paper to produce a new creative outcome, in the form of a personalised paper sculpture.

'Birds in the Trees' by Pupils at Battyeford Primary School

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Drawing Feathers



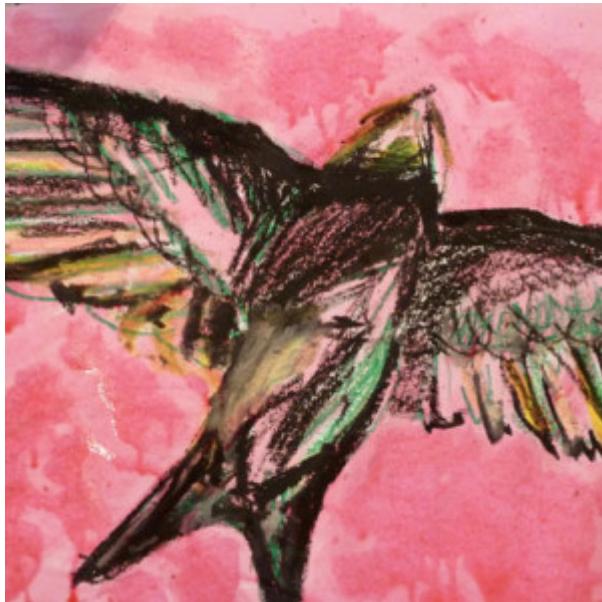
Flat yet sculptural



In the Company of Birds

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Birds in trees



Articulated and Animated Drawings by Teenagers at AccessArt's Experimental Drawing Class

A simple project to teach how to make an articulated drawing with only very basic materials.

Illustrating ‘The Jabberwocky’

In this resource, AccessArt contributor Eleanor Somerset, illustrates how she worked with a group of 7-10 year old

pupils and another of 10-15 year old budding artists, at the Little Art Studio in Sheffield, on a series of workshops to illustrate Lewis Carroll's The Jabberwocky.

Paint, Colour and Autobiographical Imagery