

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).

	Please log in here to access full content.
Username	<input type="text"/>
Password	<input type="password"/>
	<input type="button" value="Login"/> <input checked="" type="checkbox"/> Remember me
	Forgot Password

To access all content, I would like to join as...

An Individual



Creative practitioners, educators, teachers, parents, learners...

[From £3.50](#)

An Organisation...



Schools, Colleges, Arts Organisations: Single and Multi-Users
From £42

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.

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

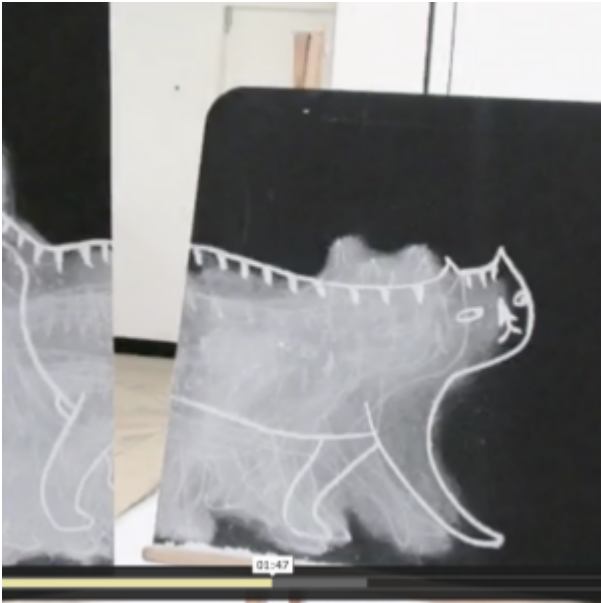
To use our Carnival Mask Template to create animal masks for an Animal Parade at the end of this half term.

Windy Day Drawing: What was it really all about?

Year 3 & 4 Making Club: Animating Articulated Beasts

You May Also Like...

Talking points: Making drawings move



Talking Points: paper cut puppets



Talking Points: Lauren child



Talking Points: Lotte reiniger



**Year 3 & 4 Making Club:
Articulated Beasts**

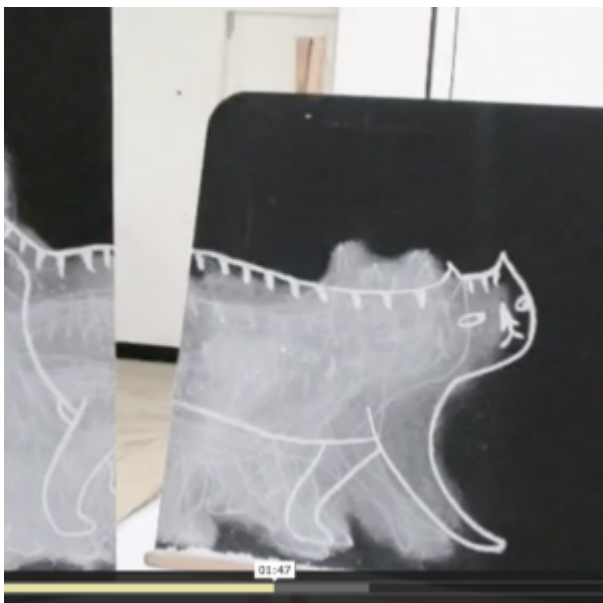
You May Also Like...

Pathway: Making Animated Drawings



[This is featured in the 'Making Animated Drawings' pathway](#)

Talking points: Making drawings move



Talking Points: paper cut puppets



Talking Points: Lauren child



Talking Points: Lotte reiniger



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.

“Flock” at Prospect House School, Inspired by Veronica

Lindsay-Addy

You May Also Like...

Visual Arts Planning Collections: Birds



Swoop



How To Make an Origami Bird



Teenagers Make Prompts to Overcome White Page Syndrome

Fabulously inspired teenagers at AccessArt's Experimental Drawing Class made prompts to help each other overcome the 'white page syndrome'.

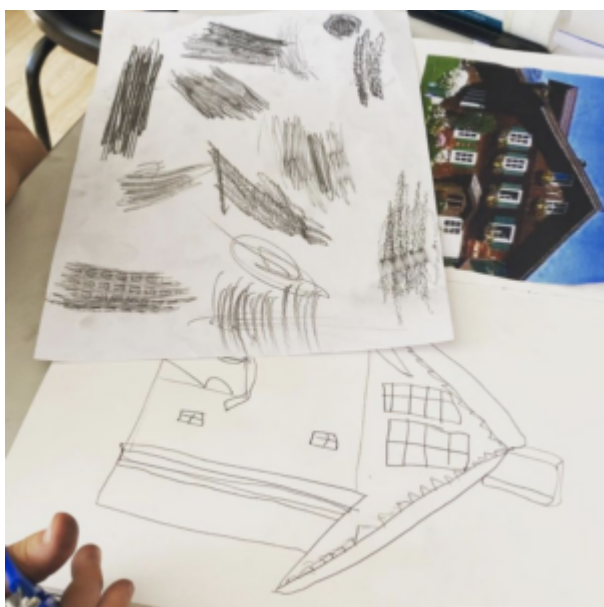
Animal Sculpture and Collage with Students at Philip

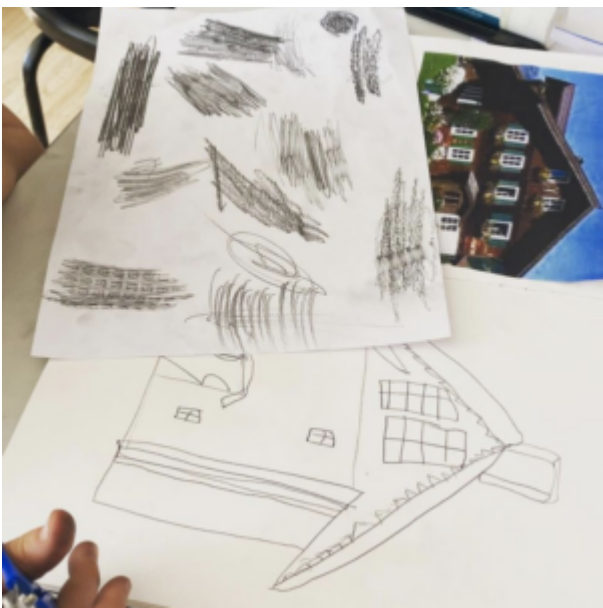
Southcote School, Surrey

Exploring 'identity' by interpreting the characteristics, habitats and personalities of animals through making sculpture and collage with scrap store materials.

Houses from Around the World: International Day at Monkfield Primary School

See This Resource Used In
Schools...







**Inspired by Google Earth:
Drawing**

Exploring Three Dimensions with Lego: Drawing and Collage

You May Also Like...

Pathway: Exploring Form Through Drawing



[This is featured in the 'Exploring Form Through Drawing' pathway](#)

Adapting AccessArt: From 2D to 3D



**Jo Allen and Rachael Causer:
Relief Printmaking at
Ridgefield Primary School**

**How to Make a Tessellated
Design**

You May Also Like...

Pathway: Exploring pattern



[This is featured in the 'Exploring Pattern' pathway](#)

Talking points: Andy Gilmore



Drawing as Support Activity

Making Drawings using a Lightbox

A Cheerful Orchestra and Other Ideas for Drawing Music by Hannah Coulson

You May Also Like...

Pathway: Music and art



[This is featured in the 'Music and Art' pathway](#)

talking points: wassily Kandinsky



**drawing
orchestras**

source

material:



**Sketchbooks:
Someone
Something**

**Drawing
Drawing**

Creating and Drawing an Art Installation