

Discovery Point and RRS Discovery



Why not continue your learning at our sister museum - Discovery Point?

A trip to Discovery Point is an adventure in its own right as audio-visual shows, computer-based multimedia and displays of the actual artefacts of the crew transport you to Antarctica.

You, or another class in your school, can take up the discounted joint museum ticket offer to take a voyage with early Polar explorers, Robert Falcon Scott and Ernest Shackleton, in search of an unknown world of snow and ice.

Joint tickets to visit both museums are only £6 per pupil with one free adult per 10 pupils. Adults will cost £12.25 each thereafter. Joint tickets are valid for visits made up to a year apart.

Get in touch!



We'd love to hear how you've used Scotland's Jute Museum @ Verdant Works or RRS Discovery back in the classroom.

Scotland's Jute Museum @ Verdant Works
West Henderson's Wynd, Dundee DD1 5BT

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e: verdantlearning@dundeeheritage.co.uk
w: verdantworks.com

Discovery Point
Riverside Drive, Dundee DD1 4XA

t: 01382 309060
e: verdantlearning@dundeeheritage.co.uk
w: rrsdiscovery.com

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Scotland's Jute Museum

@ VERDANT WORKS



School & Nursery Workshop Guide
2015/2016

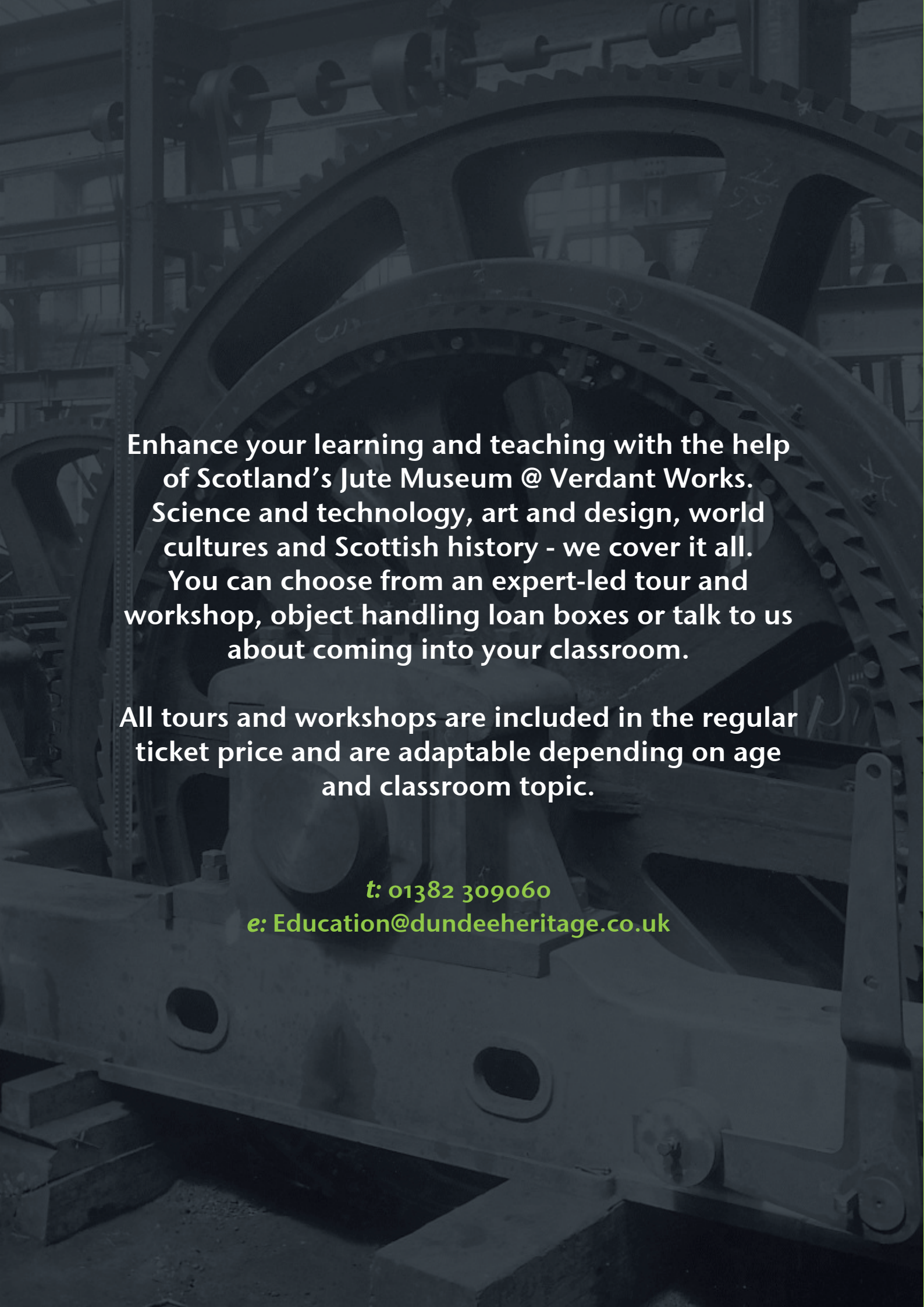


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The National Lottery
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leisure &
culture
DUNDEE
Working in Partnership
with Dundee City Council





Enhance your learning and teaching with the help of Scotland's Jute Museum @ Verdant Works. Science and technology, art and design, world cultures and Scottish history - we cover it all. You can choose from an expert-led tour and workshop, object handling loan boxes or talk to us about coming into your classroom.

All tours and workshops are included in the regular ticket price and are adaptable depending on age and classroom topic.

t: 01382 309060
e: Education@dundeeheritage.co.uk

Visiting Verdant Works

Why visit Verdant Works?

Dundee Heritage Trust is proud to hold a Sandford Award for Heritage Education at both Scotland's Jute Museum @ Verdant Works and Discovery Point. This nationally recognised award, presented by the Heritage Education Trust, is an independently judged, quality assured assessment of the education programmes at Britain's museums and heritage sites.

Before you visit

Prior to your visit, you are welcome to come to Scotland's Jute Museum @ Verdant Works for a free teacher familiarisation visit. You can also access free resources at <https://dundeehtlearning.wordpress.com/> including fact sheets and information to help you get the most from your visit to Verdant Works.

Travel subsidy

For 2016 and 2017 we can offer each Dundee school a £75 contribution towards the cost of a bus, per year.

Loan boxes

£5 deposit

We have the following loan boxes which are available to borrow: Victorian life, Old Dundee, Mill architecture, Weaving/materials

2015/ 2016 Costs

£3.50 per pupil

1 free adult per 10 children, adults £7 each thereafter

Book now

To book your visit, or for additional information, please contact our Learning Team:

t: 01382 309078

e: education@dundeeheritage.co.uk

All ages | 2 hours

We recommend that each visit begins with, or includes, a tour of the mill.

Go back in time to the working mills of 150 years ago and experience the deafening sounds of the mill machines as we demonstrate how jute is processed from its raw state to the finished product.

You might even get to meet someone with first-hand experience of working in a textile mill.

Learning Outcomes:

By visiting Verdant Works pupils will explore the following:

- How raw jute from a plant can be turned into cloth via a number of processes
- How machinery during the Industrial Revolution utilised technological advances to mass produce jute
- Why Dundee was known as 'Juteopolis'
- About the dangerous working conditions in Victorian mills, and the jobs that mill workers - including very young children - had to do
- About the living conditions, diet, education and leisure pursuits of mill workers in Dundee
- How the jute industry in Dundee has formed the city as we know it today



Early years & level 1 | Workshop 40 mins

Children will get a taste of Victorian domestic life by helping our Learning Team with the weekly washing.

Using original dolly pegs, tubs and washboards - and dressed in Victorian clothes - children will get set to work helping to peg out clothes, match up all the odd socks and investigate wash day objects from the past and present.

Learning outcomes:

By participating in this session, pupils will have explored the following:

- Made a personal link to the past by exploring items or images connected with important individuals or special events
- Explored how people lived in the past and used imaginative play to show how their lives were different
- Compared aspects of people's daily lives in the past with their own by using historical evidence and the experience of recreating an historical setting

People, past events and societies:

SOC 0-02a, SOC 0-04a, SOC 1-04a

English and Literacy.

Listening and Talking:

LIT 1-02a, ENG 1-03a, LIT 1-07a

Victorian children

Levels 1 & 2 | Workshop 1 hour

In this object based session pupils will get a taste of mill life by dressing, working and playing as a Victorian child. Participants will work together to identify everyday objects from the past.

The objects (including a chamber pot, a 'stone piggy' hot water bottle, a penny lick and some classroom objects only too familiar to Victorian children!) lend themselves perfectly for conversations about life for Victorian children in Dundee.



Pupils may also see and handle a range of old and new toys from Verdant Works collection and discover how differently (and sometimes surprisingly similarly) children played in the past - discussing materials, colour, condition and forces with our Learning Team.

Learning Outcomes:

By attending this session pupils will build on the following skills:

- Increased learning about children's lives and lifestyles in the past
- An improved understanding of how the past differs from the present
- Improved enquiry when answering questions about the past
- Raised awareness of materials used in the past

People, past events and societies:

SOC 0-02a, SOC 0-04a, SOC 1-04a

English and Literacy. Listening and Talking:

LIT 1-02a, ENG 1-03a, LIT 1-07a, ENG 2-03a, LIT 2-07a.

Victorian Christmas

Levels 1, 2 & 3 | Tour and workshop 4 hours | Available during December only

Travel back in time this Christmas! Visit Verdant Works to learn about some of the Christmas traditions established in the Victorian era and get a sneaky peek at what Victorian children in Dundee might have been expecting in their stockings.

Pupils will tour the mill dressed in mill worker costumes. Workers in Victorian Dundee would not have enjoyed a day off at Christmas!

Seasonal hands-on activities could include creating a Victorian Christmas card or printing your own wrapping paper. Sessions can end with a short reading of the Victorian tale of the *Night before Christmas*.

Learning Outcomes:

By attending this session pupils will have done the following:

- Made a personal link to the past by exploring items or images connected with important individuals or special events
- Explored how people lived in the past and used imaginative play to show how their lives were different
- Compared aspects of people's daily lives in the past with their own by using historical evidence and the experience of recreating an historical setting

People, past events and societies:

SOC 0-01a, SOC 1-01a, SOC 2-01a, SOC 3-01a, SOC 4-01a, SOC 0-02a, SOC 0-04a, SOC 1-04a

English and Literacy. Listening and Talking:

LIT 1-02a, ENG 1-03a, LIT 1-07a, ENG 2-03a, LIT 2-07a.

Art and design:

EXA1-03a, EXA 2-03a, EXA 3-03a

EXA 0-04a, EXA 1-04a, EXA 2-04a, EXA 3-04a, EXA 4-04a

EXA 0-06a, EXA 1-06a, EXA 2-06a, EXA 3-06a, EXA 4-06a

EXA 0-07a, EXA 1-07a, EXA 2-07a, EXA 3-07a, EXA 4-07a



Levels 2, 3, 4 & Senior phase | Workshop 1.5 hours

Working with a print artist, pupils will create relief-prints inspired by mill architecture.

Pupils will take part in a sketching session, looking closely at the fascinating architectural details in the High Mill.

They will then take on the role of Jute Baron and design their own mill for the 21st century, combining details from photographs of Old Dundee, their sketches from the Mill and their imaginations. Pupil's prints can be swapped and collaged to form a new industrial cityscape for Dundee.

Learning outcomes:

By participating in this session pupils will build on the following:

- Increased knowledge of mill design and architecture
- Awareness of the role wealthy individuals played in defining the physical cityscape in Dundee
- Increased understanding of Dundee's industrial past and its leading role in the textile industry across the world
- Visual decision making through 2d design; exploring line, tone, colour, texture and mark making.

Art and design:

EXA1-03a, EXA 2-03a, EXA 3-03a

EXA 0-04a, EXA 1-04a, EXA 2-04a, EXA 3-04a, EXA 4-04a

EXA 0-06a, EXA 1-06a, EXA 2-06a, EXA 3-06a, EXA 4-06a

EXA 0-07a, EXA 1-07a, EXA 2-07a, EXA 3-07a, EXA 4-07a

People, Past events and society:

SOC 0-01a, SOC 1-01a, SOC 2-01a, SOC 3-01a, SOC 4-01a



Levels 2, 3, 4 & Senior phase | Workshop 1.5 hours

In this STEM workshop, pupils will explore how steam engines work and learn about the astounding history of power, energy and the impact of mechanisation on factory production.

Pupils will see our awe-inspiring 1801 Boulton and Watt steam engine in action and be put to the test in an interactive workshop looking at gears, levers and pulleys. Working together, pupils will create their own simple machine, using principles made famous by Scottish engineers James Carmichael and James Watt.

Learning outcomes:

By attending this session, pupils will explore the following:

- The role science played in shaping industrial advances
- How water can power a steam engine, and in turn generate energy to power factories
- How linear motion can be turned into rotary motion
- How the scientific theory of centrifugal force was used to improve steam engines
- The role of Verdant Works, and the mills of Dundee, in the Industrial Revolution

Technological developments in society:

TCH 1-01a, TCH 4-01a

TCH 1-01b, TCH 2-01a, TCH 3-01a, TCH 4-01b

Craft, design, engineering and graphics contexts for developing technological skills and knowledge:

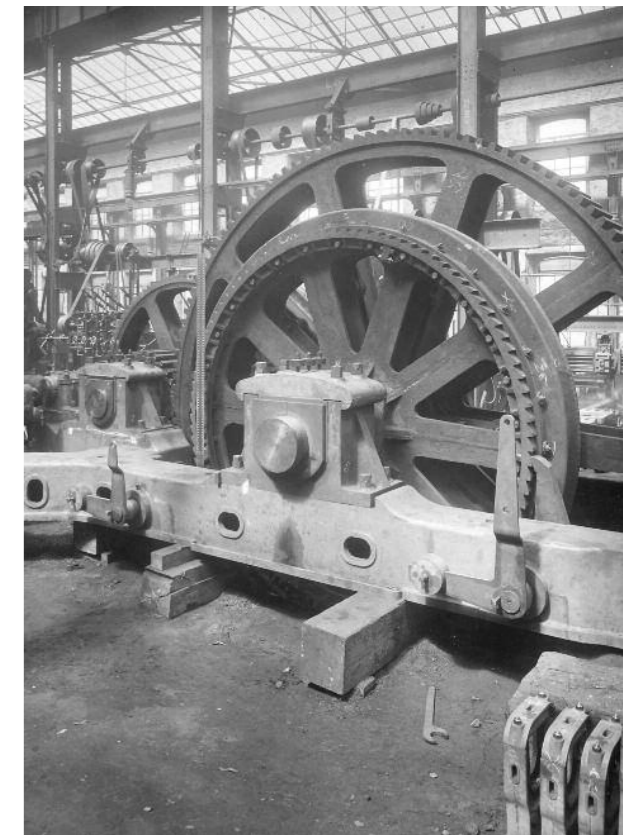
TCH 0-12a, TCH 1-12a, TCH 2-12a, TCH 3-12a, TCH 4-12 a, TCH 4-12b

TCH 1-13a, TCH 2-13a, TCH 3-13a, TCH 0-14a, TCH 4-14A, TCH 4-14b

People, past events and society:

SOC 1-06a, SOC 2-06a, SOC 3-06a, SOC 4-06a

SOC 3-05a, SOC 4-05a



Factory Commissioners

Levels 3, 4 & Senior phase | Tour and workshop, 4 hours

By the 1830s, the determination within Parliament to regulate factory conditions had strengthened. To a large extent it was driven by the battle for political reform (which resulted in the famous 1832 Reform Act), and by the anti-slavery campaign.

On arrival, pupils will be transported back to 1833 and given the role of Commissioners, tasked with making Factory Reform recommendations to the Home Office.

They will visit the mill and learn about the social and working conditions of mill workers in Dundee in the 1830s. The group will be divided into those championing rights for the mill workers and those keen to keep costs low and profits high and a short debate will take place. Pupils will have to interpret, analyse and evaluate a range of information throughout the day to make critical, ethical, responsible and effective business decisions to put forward key recommendations.

Learning outcomes:

By attending this session, pupils will explore the following:

- How raw jute from a plant is turned into cloth via a number of scientific processes and how machinery during the Industrial Revolution utilised technological advances to mass produce jute.
- The role that individuals played in the development of the jute industry in Dundee
- The dangerous working conditions in Victorian mills, and the jobs that mill workers - including very young children - had to do
- About the living conditions, diet, education and leisure pursuits of mill workers in Dundee

Business Management:

National 4: Influences on Business, Added Value Unit: Business Assignment

National 5, Higher, Advanced Higher: Understanding Business, management of People and Finance

Changing Britain: life in Luteopolis

Level 3, 4 & Senior phase | Tour 2.5 hours

Dundee's population doubled between 1831 and 1861, to 91,664. With thousands of textile workers coming into the city, especially from Ireland, Dundee's population had risen to 120,724 by 1871.

In this specially adapted social history session, we'll tour the mill and explore the reasons for overcrowding, poor quality housing and subsequent medical problems in Dundee.

Looking at our Boulton and Watt steam engine, we'll examine the impact of technology and legislation on textile factories. This will include the effect of the factory acts and how this changed working conditions.

Learning outcomes:

By attending this session, pupils will explore the following:

- How raw jute from a plant is turned into cloth via a number of scientific processes and how machinery during the Industrial Revolution utilised technological advances to mass produce jute.
- The role that individuals played in the development of the jute industry in Dundee
- The dangerous working conditions in Victorian mills, and the jobs that mill workers - including very young children - had to do
- About the living conditions, diet, education and leisure pursuits of mill workers in Dundee



- The role of Verdant Works, and the mills of Dundee, in the Industrial Revolution
- How the jute industry in Dundee has formed the city as we know it today

History:

National 5 Changing Britain, 1760- 1900

People, past events and societies

SOC 4-04a, SOC 4-05a, SOC 4-05b, SOC 4-05c, SOC 4-06d