

HIAS MOODLE+ RESOURCE

Build a lighthouse... out of newspaper!

TASC

Jo Lees
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Final version

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Overview

In this document







This mathematics task is a TASC resource (Thinking Actively in a Social Context). It is suitable for upper KS2 and KS3

Points to consider when using this resource

Pupils need to work collaboratively in groups of approximately 3.

Build a lighthouse... out of newspaper!



<p>Gather and organise:</p> <p>What do we know about lighthouses? What is their purpose? What shape might they be? What do we know about newspaper as a building material? What are its properties? What could we do with it?</p>	
<p>Identify – What is the task?</p> <p>You must build a lighthouse using only newspaper and masking tape. It must be a minimum of 90cm tall and it must be free- standing. It must be able to hold a battery-operated tealight at the top.</p>	
<p>Generate:</p> <p>How many ideas can you think of that might work? Think of different ways to use the newspaper that will make a lighthouse. How will you ensure it is the right height?</p>	
<p>Decide:</p> <p>Which idea do you think is the best? Why do you think it is likely to be more successful than the other ideas?</p>	
<p>Implement:</p> <p>Make your lighthouse. Try the idea that you thought was best first, but be prepared to try another idea if necessary. Share out the tasks so that you work as a team.</p>	
<p>Evaluate:</p> <p>Refer back to the success criteria. Are you happy with the finished lighthouse? Would you change anything to make it better? Was anything problematic? How did you overcome any difficulties?</p>	

Communicate:

Describe the process of making your lighthouse to another group. Compare your lighthouse – and all of the ideas you had – with theirs. Can you suggest one improvement to their lighthouse and invite them to suggest one improvement to yours?



What have we learned?

What did we learn – from our work and also the lighthouses made by other people – about how we can use newspaper as a building material? What mathematics did we use in this task? What shape did we have to make from the newspaper? How did we make the newspaper stronger? How did we work as a team? Did we all agree about the best idea or did we have to negotiate and compromise?



Maths Team Contact Information

Jo Lees – Area Inspector – Mathematics

Email: jo.lees@hants.gov.uk

Tel: 02380 816139

Jacqui Clifft – Area Inspector – Mathematics

Email: jacqui.clifft@hants.gov.uk

Tel: 02380 816139

Jenny Burn – Inspector/Adviser – Mathematics

Email: jenny.burn@hants.gov.uk

Tel: 01962 876207

Tessa Ingrey – Teaching & Learning Adviser – Mathematics (P/T)

Email: tessa.ingrey@hants.gov.uk

Tel: 01962 876207

Natalie Ivey – Inspector/Adviser – Mathematics (P/T)

Email: natalie.ivey@hants.gov.uk

Tel: 01962 876207

Dave Parnell – Teaching & Learning Adviser – Mathematics

Email: dave.parnell@hants.gov.uk

Tel: 01962 876207

Rebecca Reynolds – Teaching & Learning Adviser – Mathematics

Email: rebecca.reynolds@hants.gov.uk

Tel: 01962 876207

Brenda Robertson – Inspector/Adviser – Mathematics

Email: brenda.robertson@hants.gov.uk

Tel: 01962 876207

Kate Spencer – Teaching & Learning Adviser – Mathematics

Email: kathryn.spencer@hants.gov.uk

Tel: 01962 876207

Curriculum Centre contact details:

Sheila Kyme - Curriculum Centre Manager

Email: sheila.kyme@hants.gov.uk

Tel: 01962 874831

Lynne Ridout - Senior Administrative Assistant

Email: lynne.ridout2@hants.gov.uk

Tel: 01962 874830

For further details on the full range of services available please contact us using the following details:

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