

Category 1: Year 1 & 2

## Rescue me!



### Science Technology Engineering Mathematics

weather  $\cdot$  materials  $\cdot$  time  $\cdot$  temperature



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## Sfida SIEM

Instructions:
<ul> <li>Rescue the frozen plastic toy.</li> <li>You have to defrost the toy in the shortest time possible.</li> </ul>
<ul> <li>Use the suggested materials or similar only!</li> <li>Electric/gas ovens &amp; microwave ovens are not to be used!</li> </ul>
Suggested materials: (Other similar materials may be used)
☐ Ice cube tray ☐ Baking soda ☐ Vinegar ☐ Water ☐ Salt ☐ Large container ☐ Towels/paper towels ☐ Stopwatch ☐ Hands  Top tips:
<ul> <li>□ Freeze the plastic toy overnight.</li> <li>□ If using the baking soda and water make sure to mix well before pouring the mixture in the ice cube tray!</li> <li>□ Measure the time taken for the toy to defrost.</li> </ul>
Conduct research and gather ideas!



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Category 2: Year 3 & 4

# Keeping Frosty the Snowman frozen



## Science Technology Engineering Mathematics

 $materials \cdot energy \cdot time \cdot temperature$ 



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## Sfida STEM

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Ц	Freeze water inside plastic bottles or plastic
	containers and use them as model Snowmen. *
	Devise a way to keep the Snowman frozen for a
	few hours.
	You may decorate the Snowman using any
	materials.
* D	o not fill the container up to the top
	ggested materials: ner materials may be used)
	Water
	Plastic bottles (small water bottles)
	Materials for decoration
	A large flat container
	An old glove / sock
_	Tea cosy / kitchen towel
	Stopwatch / timer
То	p tips:
_	Do some research to gather ideas and the best
	materials used in insulation!
	Will a coat keep the Snowman frozen or will it warm
	him up?
	Use these links if you want to investigate virtually
	(download):
	$\frac{https://drive.google.com/file/d/1Jvv4kY0p3VHFHR9gl7sjGHGN2HVvyVEt/view?usp=sharing}{}$
	https://drive.google.com/file/d/1EBR3CMB5tupDDwvt39eKHwRtWJRHrx7p/view?usp=sharing



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# How do Arctic Animals stay warm in icy water?



## Science Technology Engineering Mathematics

weather  $\cdot$  habitats  $\cdot$  energy  $\cdot$  temperature



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Instruction	s:
1	

☐ Come up with a solution to prevent	
from getting cold when immersed in ice and water.	nto a bowl full o
ice and water.	
$oldsymbol{\square}$ You must be able to keep your body	y temperature
from dropping for at least 5 minute	s.
Suggested materials:	
Other materials may be used)	

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Ч	TCE CUDE	3.
	Water	

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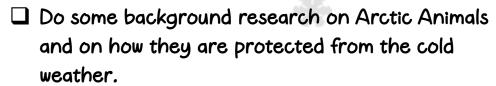
	Rubber/	latey/	plastic.	aloves
_	<b>MUDDE!</b>	14168/	Plastic	gioves

☐ Woollen gloves	/ fabric gloves
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Vaseline/	petro	leum	ielly

	Lard/	vegetable	shortening/	fat
_	Lai u	VOGOLGOIO	31101 601 111 191	141

#### Top tips:



☐ Put your bare hands in a bowl of freezing ice water. Do you think you can hold your hands in freezing water for a long time?

☐ Can you emulate the Arctic Animals special features?



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