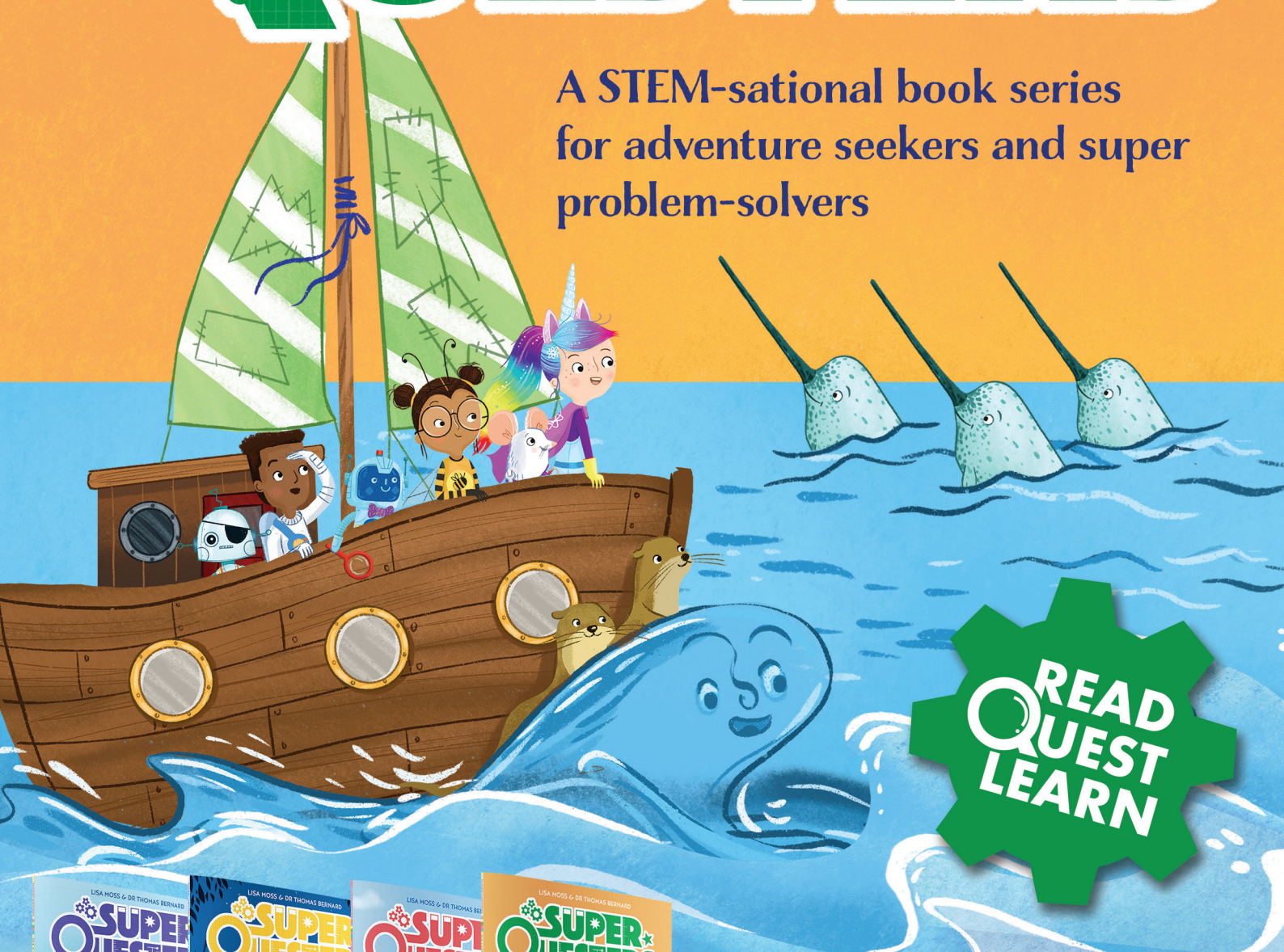


SUPER QUESTERS

A STEM-sational book series for adventure seekers and super problem-solvers



ACTIVITY PACK

SUPER QUESTERS

The Case of the Angry Sea
BY LISA MOSS & DR THOMAS BERNARD



Welcome to the SuperQuesters Activity pack!

We're delighted to introduce you to the SuperQuesters series, which has been expertly developed by authors Lisa Moss and Dr Thomas Bernard to develop STEM skills for children aged 4+. Perfect for fans of *Ada Twist Scientist*, *Izzy Gizmo*, *Look Up!*, and the *Fantastically Great Women* series and superhero enthusiasts, these fantastic books are ideal for children who love learning through play.

SuperQuesters is a young fiction adventure series at its heart with a non-fiction educational twist. Each adventure addresses a specific scientific question and the central characters become their alter ego superheroes, the SuperQuesters, journeying to magical Questland to answer the question for the reader. Readers are invited to help the SuperQuesters complete their 'mission' by interacting with a series of activities (the STEM quests) to arrive at the answer. While completing each overarching 'mission' in Questland the reader develops 12+ different STEM skills such as coding, abstraction, logic and trial and error, supporting the National Curriculum for Key Stage 1 in Science, Computing and Maths.

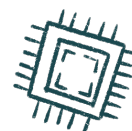
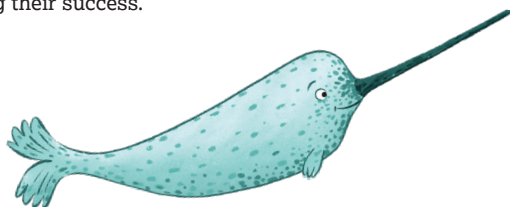
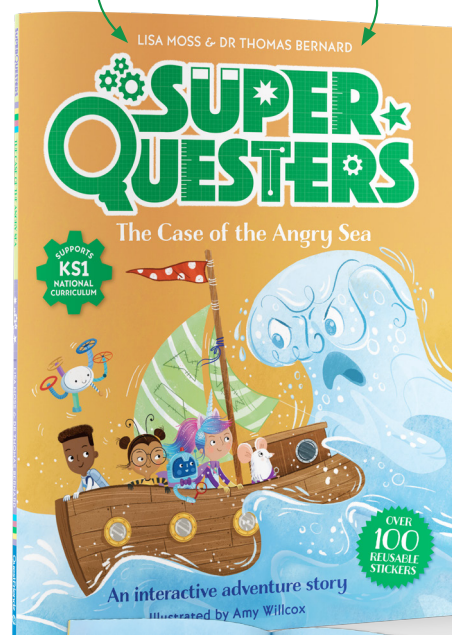
This activity pack has been created for use at home, in the classroom, for home-schooling or at after school clubs with creative and interactive activities to help make STEM learning fun and engaging. The SuperQuesters books are available to buy from your local bookshop or online.

It's time to Read, Quest, Learn!

About SuperQuesters: The Case of the Angry Sea

The SuperQuesters series is a unique new concept in storytelling combined with hands-on STEM learning.

In *SuperQuesters: The Case of the Angry Sea*, when Lilli, Bea and Leo need inspiration for how to clean up their local river, they journey to Questland to research ideas for a machine to clear up the rubbish. Upon arrival, the trio discover the sea is in a state of fury and unrest and only they can help. Lord Grumble has teamed up with Captain Blackwaters on a terrifying tanker. They are tearing through the waters of Questland, leaking oil and littering. The SuperQuesters set out to stop the dastardly duo, clean up the waters of Questland and rescue the sealife. Can you help the SuperQuesters to save Questland's sea? The SuperQuesters show that anything is possible with clear thinking, logic and patience. With over 100 reusable stickers in each book, plus a reward chart, fun facts, glossary and answer page, children will love charting their progress and celebrating their success.



SUPERQUESTERS

SuperQuesters Eco Invention

In *SuperQuesters: The Case of the Angry Sea*, Lord Grumble and Captain Blackwaters are polluting Questland's sea. The SuperQuesters set out to stop the dastardly duo.

Can you help the SuperQuesters by designing an invention with a special tech feature or superpower to help clean up Questland's sea?

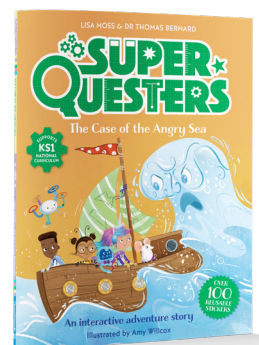


Discover more at: www.questfriendz.com



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SUPERQUESTERS

Bea Bumble's Recycling Challenge

Can you help Bea Bumble to sort all of the items collected for recycling.

Draw a circle around all organic items, a cross on all plastic items, a tick next to all card items and a star on all cans.

Organic waste - any natural material that comes from either a plant or an animal.



STEM SKILLS: problem solving, reasoning, sorting

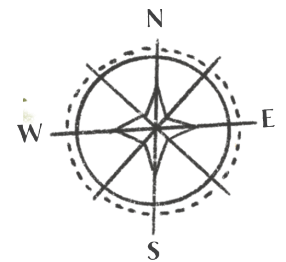
SUPERQUESTERS

Help the SuperQuesters Find the Correct Sea Passage

The SuperQuesters need your help to find the correct route from The Shore to Black Rock Island. Help them to travel in the correct order, before finding the dastardly duo on their ship and returning them to Black Rock Island.

Circle the correct passage plan below. Then draw the route on the grid using arrows to complete the mission.

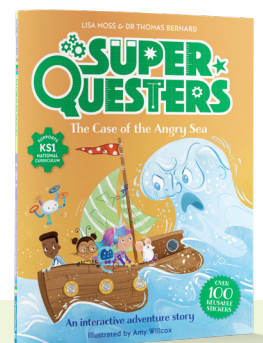
HINT: you can only land on a grid location once, you must start at **1. The Shore** and you must end at **8. Black Rock Island**.



Passage Plans:

- A. Travel EAST 2 squares, SOUTH 1 square, WEST 1 square, SOUTH 1 square, EAST 2 squares, SOUTH 1 square, WEST 2 squares, SOUTH 1 square, EAST 3 squares
- B. Travel EAST 2 squares, SOUTH 1 square, WEST 1 square, SOUTH 1 square, EAST 2 squares, SOUTH 1 square, WEST 3 squares, SOUTH 1 square, EAST 2 squares
- C. Travel EAST 2 squares, SOUTH 1 square, WEST 1 square, SOUTH 1 square, EAST 2 squares, SOUTH 1 square, WEST 3 squares, SOUTH 1 square, EAST 3 squares

1. The shore (START)		2. Stormy sea	
	3. Oil Spill		
		4. Garbage Patch	5. Recycling Depot
6. Arctic Waters			
	7. Ship Ahoy!		8. Black Rock Island



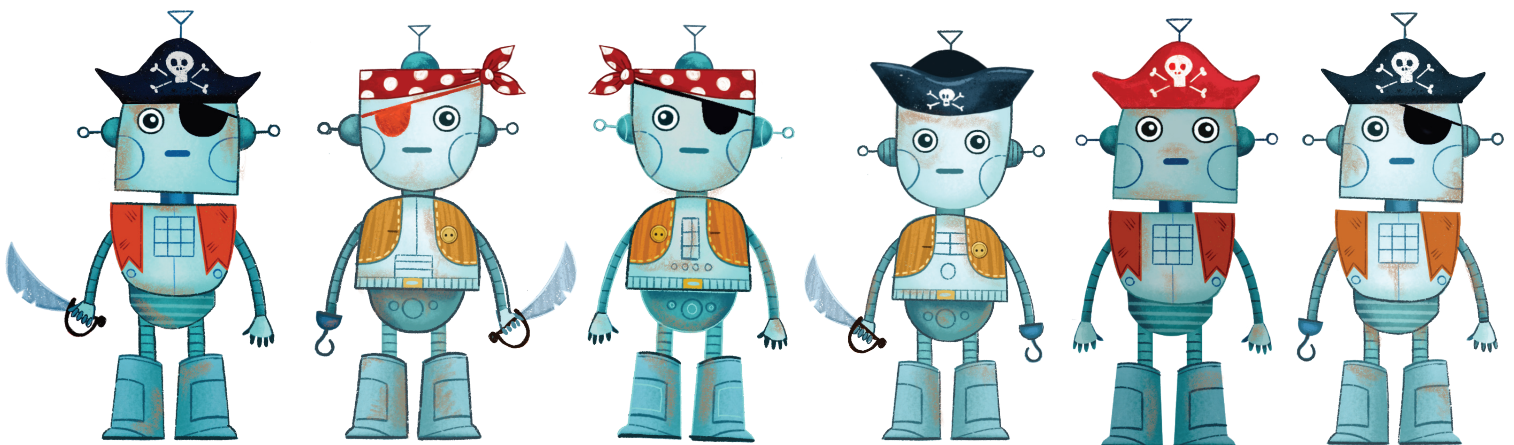
STEM SKILLS: navigation, reasoning, spatial recognition, troubleshooting

SUPERQUESTERS

Leo Zoom's Pirate Robot Challenge

Can you help to locate the pirate robot that Leo Zoom has reprogrammed. Follow the instructions on the screen below.

Circle the reprogrammed pirate robot.



```
FUNCTION findReprogrammedPirateRobot {  
  IF (NO sword) THEN {  
    CONTINUE;  
  }  
  IF (eye_patch) IN (black) THEN {  
    CONTINUE;  
  }  
  IF (hook_hand AND black_pirate_hat) THEN  
  {  
    PRINT ("You found the reprogrammed pirate robot!");  
    RETURN (FoundReprogrammedPirateRobot);  
  }  
}
```



STEM SKILLS: coding, debugging, problem solving

Discover more at: www.questfriendz.com



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SUPERQUESTERS

Lillicorn's River Cleaning Challenge

Can you help Lillicorn to sort and tally all of the trash which she has collected from the local river.

Count each type of rubbish and record your answer in the tally chart below.



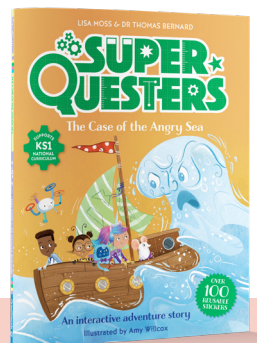
Organic waste - any natural material that comes from either a plant or an animal.



Trash	Tally
Plastic	
Card	
Cans	
Organic	



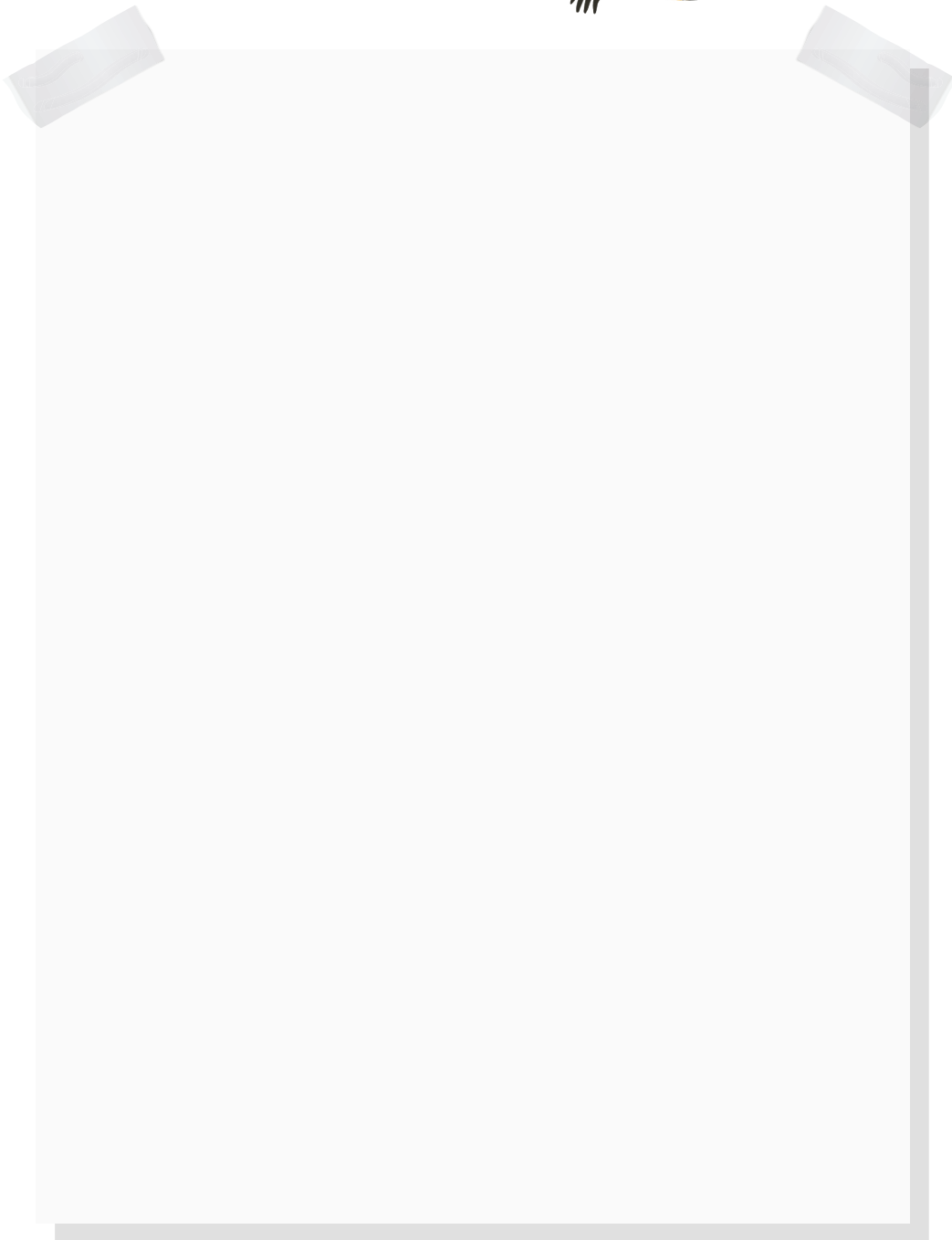
STEM SKILLS: analytical thinking, pattern matching, sorting



SUPERQUESTERS

SuperQuesters Plastic Pollution Poster

Can you help the SuperQuesters to design a poster to raise awareness for plastic pollution and the importance of keeping rivers and seas clean?





SUPER QUESTERS

AWARD CERTIFICATE

This is to certify that

is a fully qualified

The Case of the Angry Sea

SUPERQUESTER

Congratulations!

Date:

Signature:

