The **Curious Case** of the MYSTERIOUS CRYPTID

HI! IT'S **ANDREWS SURVEY** HERE, AND I'VE GOT SOME SUPER-EXCITING NEWS! YOU'VE BEEN CHOSEN TO INVESTIGATE SOME SPINE-CHILLING, STRANGE AND STRAIGHT-UP SCARY GOINGS ON AT LOCH NESS! FOR YEARS, PEOPLE HAVE CLAIMED THAT A MONSTER LURKS BENEATH THE MURKY SURFACE OF THE LAKE.

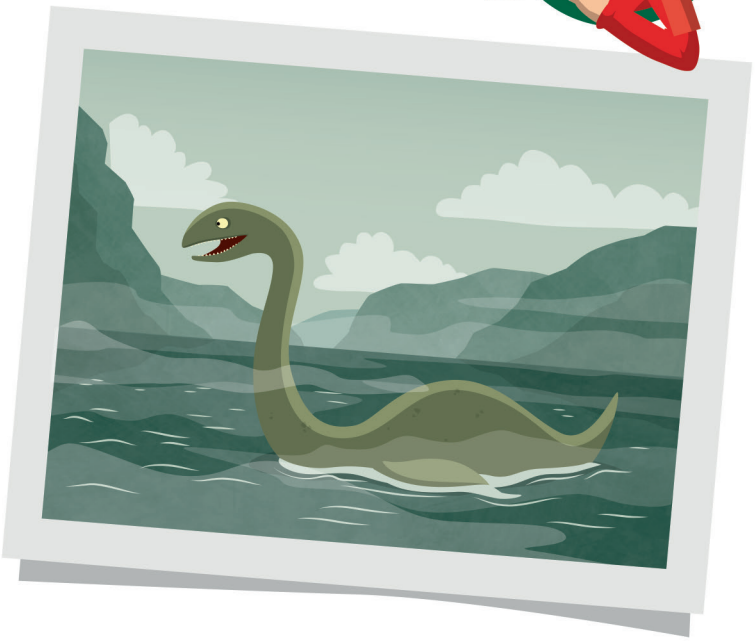
A RECENT SURGE IN SIGHTINGS HAS PROMPTED PANICKED LOCALS TO ASK FOR YOUR HELP! CAN YOU PLAN A SURVEY EXPEDITION TO FIND OUT THE TRUTH ABOUT ***THE LOCH NESS MONSTER?***

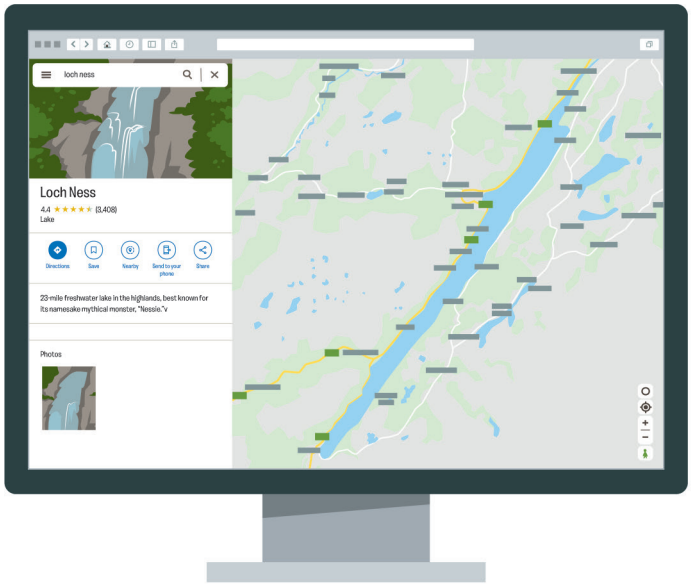
TASK 1:

KNOW YOUR MYTHICAL MONSTERS

(LITERACY LINKS - MYTHS AND LEGENDS/FOLK TALES)

The Loch Ness monster is a cryptid: a creature whose existence is doubted, but not disproven, by scientists. If you are going to find it, you need to know what to look for. The first alleged sighting of the monster was all the way back in 565 CE, and people still claim to have seen the monster all the way to the present day. Your first task is to become a Nessie specialist. Use the web to find as many Nessie 'facts' as you can. Focus on appearance, size, similarities to other animals (including dinosaurs) and comparisons with other cryptids (like Bigfoot, the Kraken, and the Beast of Bodmin Moor).





TASK 2:

PLAN YOUR JOURNEY

(GEOGRAPHY OBJECTIVES - LOCATIONAL KNOWLEDGE/PLACE KNOWLEDGE/ GEOGRAPHICAL KNOWLEDGE)

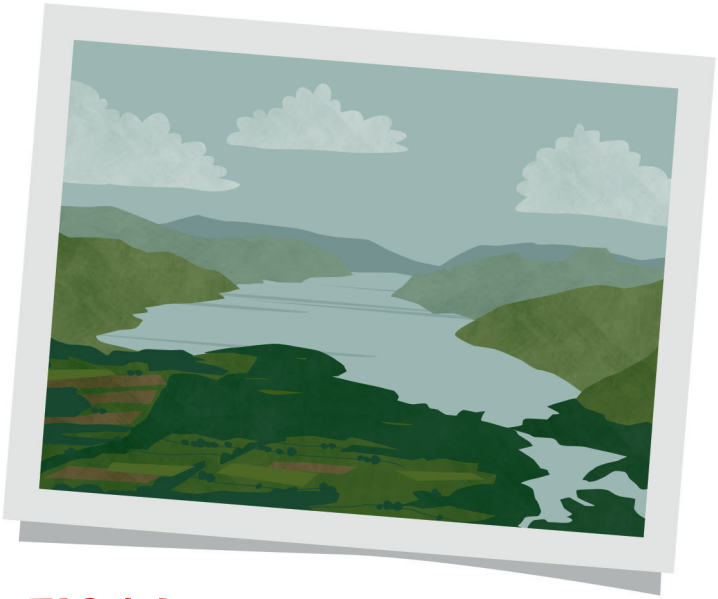
Before you head off to the Highlands, you'll need to know the way! Use an online mapping site to find a route from where you live to Loch Ness. Find out how long it would take to drive there, and how long it would take on public transport. Find at least one alternate route, just in case anything happens on the way. Explore the loch on the map; how do the surrounding areas compare to where you live? Is it flat or hilly? What are the roads around the lake like? Use what you find to make a list of the clothing, footwear and personal equipment you will need for your expedition. As an additional task, use a travel website to find a place to stay nearby, and start drawing up an expedition budget for accommodation, food and travel costs.

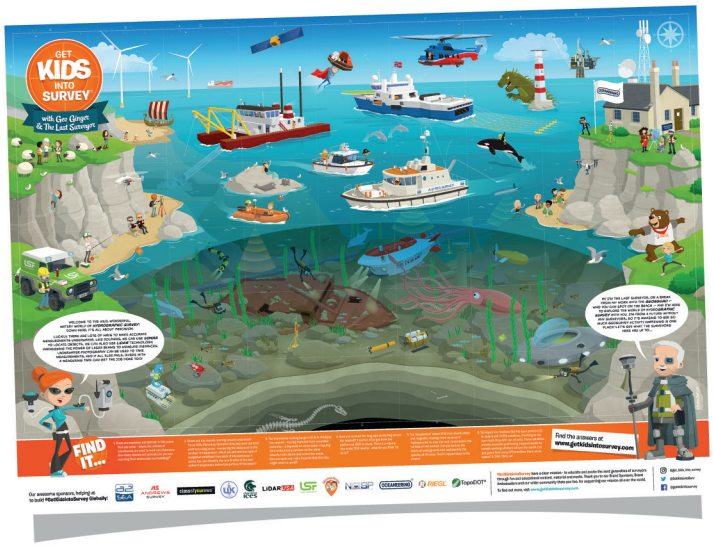
TASK 3:

LOOK AT THE LOCH

(GEOGRAPHY OBJECTIVES – GEOGRAPHICAL KNOWLEDGE)

If you are going to locate the legendary Nessie, you need to know Loch Ness like the back of your legs. Find the answers to the following important questions: how long is Loch Ness? How wide is the loch at its broadest point? How deep is Loch Ness? Is it a freshwater or saltwater lake? What is the loch's surface area, elevation, and water volume? How far is it from Inverness, and what is the name of the castle on its western shore?





TASK 4:

SELECT YOUR SURVEY EQUIPMENT

(GEOGRAPHY OBJECTIVES – GEOGRAPHICAL KNOWLEDGE AND FIELDWORK)

You'll need some tricked-out tech to explore below the surface of the loch. Using the Get Kids into Survey Offshore Exploration Poster, decide which pieces of survey equipment you will need to help you find the monster. SONAR technology will be a big helper in the murky waters of the lake; research how bats and other animals use echolocation to help them 'see' in the dark, and think about how SONAR systems work the same way. (Hint: the answer to question 1 in the poster will help you select your sonar technology and understand how soundwaves can be used to map underwater surfaces.)

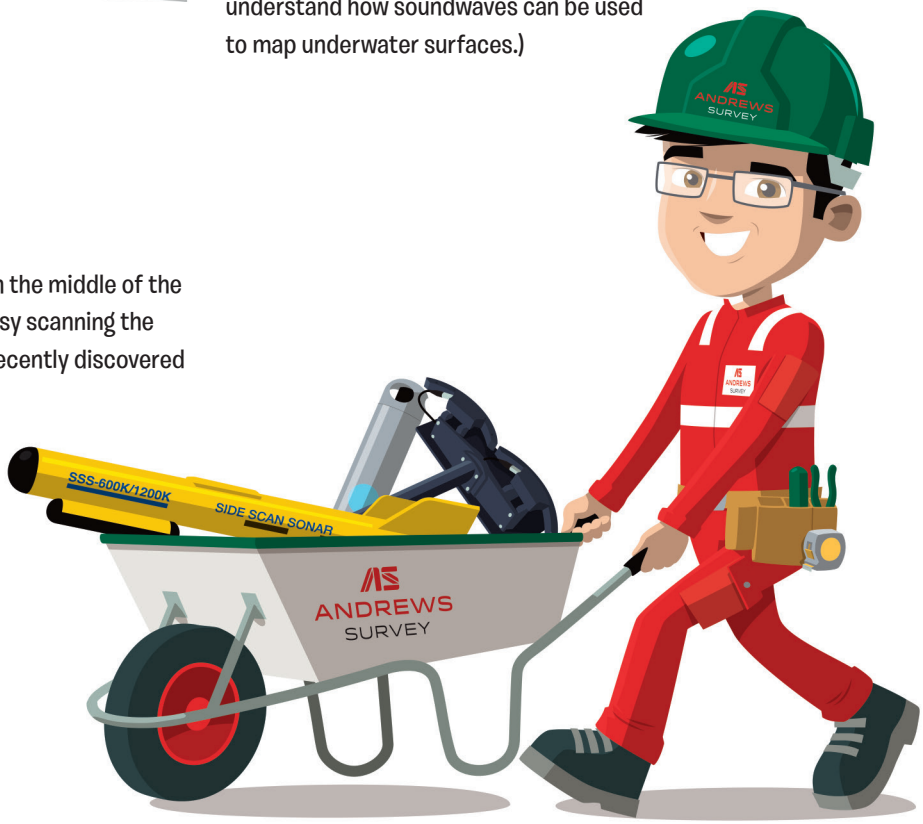
TASK 5:

TELL YOUR STORY

(LITERACY LINKS – RECOUNT WRITING)

You made it to Loch Ness. You are out on the lake in the middle of the night; the sonar systems fitted to your boat are busy scanning the depths of the lake. You pass over 'Nessie's Lair', a recently discovered chasm deep below the surface, when something appears on the sonar scan. Something big. Something moving. It tears up through the water, right towards your boat...

What was it? What did you discover? Write an eyewitness statement describing your encounter with Nessie, and include a sketch that can be printed in tomorrow's paper – you're going to be famous!



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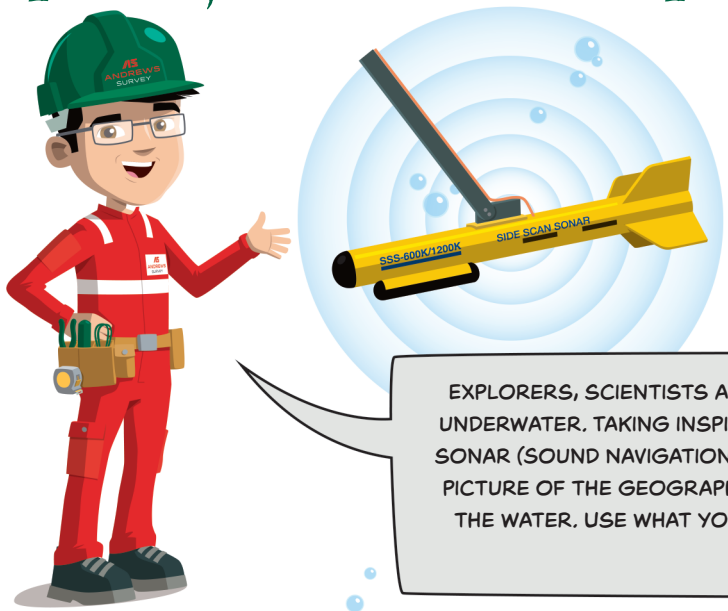

SONAR

HOW IT WORKS

EXPLORERS, SCIENTISTS AND SURVEYORS USE SONAR TO 'SEE' TO GREAT DEPTHS UNDERWATER. TAKING INSPIRATION FROM ANIMALS THAT USE ECHOLOCATION, THEIR SONAR (SOUND NAVIGATION AND RANGING) DEVICES USE SOUNDWAVES TO CREATE A PICTURE OF THE GEOGRAPHICAL FEATURES THAT LIE FAR BENEATH THE SURFACE OF THE WATER. USE WHAT YOU HAVE LEARNED TO EXPLAIN ECHOLOCATION, AND HOW SONAR DEVICES WORK...

Draw a diagram to show how bats use echolocation

Animals like bats use echolocation to _____

Draw a picture of a sonar ship scanning the sea bed

Electronic sonar devices work by _____