After so much traveling, Rosie and Gibbs fell asleep exhausted.

Rosie, wake up! I see people!

Emma is cold. Let's get inside the ICL!

Hello over there!

Real, did you hear that?? Probably just another winterover.

I think it’s a… a penguin?

I bet they will know what the blue box is.

Hahaha! Nia, you are funny.

WHAT?! We have to say hi! I’ve never met a human before...

Who’s there?

EMMA. EMMA WHO?

Knock knock.

We are Rosie and Gibbs, and we’re on an adventure!

Hello, you came to the right place!

Who’s there!

What are you doing over there?

No kidding! You’re standing on a giant telescope!

We are Rosie and Gibbs, and we’re on an adventure!

Well, you came to the right place!

Hello over there!

We are Rosie and Gibbs, and we’re on an adventure!

A telescope right below my feet?!

A telescope right below my feet?!

I think it’s a… a penguin?

I bet they will know what the blue box is.

There are now!

There are now!

Come with us to the IceCube Lab. We’ll tell you more.

Comes with us to the IceCube Lab. We’ll tell you more.

IceCube Lab (ICL)
I’LL DIG AND FIND THE TELESCOPE!

GOOD TRY! BUT THE DETECTOR IS ALMOST 2 KILOMETERS BELOW!

ROSSIE, WHAT WERE YOU DOING?

DON’T WORRY, ROSSIE. WE CAN HELP YOU OUT!

WHAT A BRAVE AND SILLY PENGUIN.

THANKS, EVERYONE. I DIDN’T REALIZE HOW BIG THIS DETECTOR WAS!

...ANY CHANCE WE CAN GET THAT AWESOME SOUTH POLE GEAR, TOO?

YES! TRY THESE SPECIAL GOGGLES AS WELL. THEY LET YOU SEE BELOW THE ICE.

ANY CHANCE WE CAN GET THAT AWESOME SOUTH POLE GEAR, TOO?

ROSSIE AND GIBBS FELT TOTALLY COOL IN THEIR NEW WINTEROVER GEAR.

THE VIEW WAS SPECTACULAR, BUT IT WAS A LONG WAY DOWN!

THE VIEW WAS SPECTACULAR, BUT IT WAS A LONG WAY DOWN!

THIS IS ICECUBE: A CUBIC KILOMETER OF ICE FILLED WITH OVER 5,000 LIGHT SENSORS.

SWITCH YOUR GOGGLES TO DISPLAY VIEW. AWESOME, RIGHT?

THAT’S HOW WE SHOW A NEUTRINO EVENT.

BEAUTIFUL! I COULD WATCH THIS ALL DAY.

MAYBE YOU SHOULD BECOME AN ICECUBER, TOO.

MAYBE YOU SHOULD BECOME AN ICECUBER, TOO.

WOW! THIS THING IS MASSIVE!

SEE THAT BLUE LIGHT? IT’S PRODUCED WHEN A NEUTRINO INTERACTS WITH THE ICE.

SOUNDS LIKE A PLAIN BUT OUR FIRST PENGUIN ICECUBERS WILL NEED SOME TRAINING TO SURVIVE AT THE SOUTH POLE.
Rosie's Discoveries

Winterover
Winterovers are the few people who spend the long, dark winter at the South Pole. From February to October, which is wintertime in Antarctica, planes can’t land at the Pole and the winterovers are totally isolated.

IceCube Lab (ICL)
The ICL is the only IceCube structure visible, since the detector is buried in the ice. It hosts racks of computers that collect lots of data all the time.

Detector
The IceCube detector consists of a grid of light sensors, called DOMs, attached to 86 cables, or strings, spread out over a cubic kilometer of ice. So, "Ice"+"Cube" is actually an appropriate name for this detector.

Neutrino
Neutrinos are tiny particles that travel through the universe. They are like light except that they sail through everything, even the entire Earth! Neutrinos are also called ghost particles because they are very hard to catch.

Neutrino Event
Scientists create colorful displays to show what happens as a result of a neutrino interacting with the ice in or around IceCube. A red DOM indicates the first light that was seen, while green and blue represent light seen later. The size of the bubble tells us how much energy was detected.

IceCuber
If you work at IceCube, whether or not you are a scientist, you are an IceCuber. I'm excited to be the first penguin on the team!