





## Steps to Success

Lockdown	
Date	
Subject/s	Design and Technology
Learning Objective 	To create a design criteria that meets the needs of the user.

		SA 	TA 
Success Criteria 	I can research into the user's needs.		
	I can research existing products.		
	I can understand the purpose and function of the product.		
Support	Independent	Adult Support ( )	Group Work
<b><u>Key vocabulary for the lesson:</u></b> research   shelter   criteria   waterproof   weatherproof   insulating   strong			

December 5<sup>th</sup> 1914.

Dear Emily,

Our wonderful Endurance has been encased in ice and we have been forced out of our ship and onto the freezing ground. I feel so responsible and my men are looking to me for guidance. We urgently need some shelter as we can't live here safely. I think our best chance of survival will be to wait until Spring comes and pray the heat will melt the ice enough for us to be free.

I am writing to you because I need your help! I need you to find the best architect to help us design a shelter to protect us from the cold. We could stay here on the ice in Antarctica or we could escape back to Elephant island. Both places have lots of animals that we are trying to keep away.

I have attached the list of crew members so the designer can make sure it fits us all!

Please hurry, I am afraid we may not make it.

Your tired, Micky.

Elephant Island



Antarctica



# THE CREW



JAMES WORDIE  
Expedition geologist.



TIMOTHY MCCARTHY  
Able seaman.



ALFRED CHEETHAM  
Third officer.



FRANK WORSLEY  
Ship's captain.



ERNEST SHACKLETON  
Expedition leader.



FRANK WILD  
Second-in-command.



FRANK HURLEY  
Expedition photographer.



DR. JAMES McILROY  
Second surgeon.



DR. ALEXANDER MACKLIN  
Expedition surgeon.



LEONARD HUSSEY  
Expedition meteorologist.



GEORGE MARSTON  
Expedition artist.



WALTER HOW  
Able seaman.



LIONEL GREENSTREET  
First officer.



ERNEST HOLNESS  
Able seaman and stoker.



HUBERT HUDSON  
Navigating officer.



REGINALD JAMES  
Expedition physicist.



THOMAS ORDE-LEES  
Motor expert and storekeeper.



JOHN VINCENT  
Boatswain and able seaman.



CHARLES GREEN  
Ship's cook.



ALEXANDER KERR  
Second engineer.



LOUIS RICKINSON  
Chief engineer.



TOM CREAN  
Second officer.



WILLIAM STEPHENSON  
Fireman and stoker.



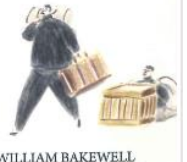
ROBERT CLARK  
Expedition biologist.



THOMAS McLEOD  
Able seaman.



HENRY McNEISH  
Ship's carpenter.



WILLIAM BAKEWELL  
PERCY BLACKBORROW  
Able seaman. Stowaway.

Your task is to think about what the 'criteria' should be for the shelter for Shackleton's crew. You need to make a list of all of the things that the shelter should be.

Some of things you need to think about:

- How many people need to be able to fit in?
- What weather should it be able to withstand?
- What dangerous animals does it need to protect them from?
- What terrain does it need to stand on?