

COJO - Mission 4 - Tuesday 2nd February 2021.

Task Mission: To use available materials to keep the team alive.

Brief: Following a welcome morale boost from friends and family, explorers have covered further hundreds of miles and have reached Mailham Fjord. Huge icy ridges greet them. With night time descending and temperatures rapidly declining, teams must build shelter - in this climate there's only one structure to ensure survival ... an igloo!



icy
ridges



Igloo

What you need: Sugar cubes, glue, card, Lego figures or similar.

Action Plan: Today's activity area is small and requires the use of fine motor skills and patience. Placed in front of the explorers are plastic cups, various lengths of string and some elastic bands.

What you need to do:

Explorers have only clumps of snow and sheets of ice in which to construct a safe and secure shelter. Scattered around the activity area bricks of snow (sugar cubes), softer snow to use as cement (glue) and vast sheet of ice (cardboard). The only option is to construct a sturdy igloo!



Bricks of snow.

How to do it:

You as an explorer, need to set to work on making your igloo. Use a sheet of cardboard for the base. You will need to consider how you are going to make the curves of an igloo with the cubes. You will also need to decide the best way of securing each brick in place, without the igloo collapsing in on its self. The igloo will need to be a big enough to house 3 explorers (Lego men/other figures). Take photos at the start of your work, in the middle and the end.

Answer the following questions:

Test the igloo structures - can the three explores fit inside comfortably?

In what way is the structure stable?

Will the explorers withstand the harsh conditions in this type of shelter?

Did you ask anybody for help?

What would work better next time?

Do you think trying to survive in the cold is more dangerous than trying to survive in heat? What are the difficulties with each?

CHALLENGE:

The igloos must house more explorers (4 or 5).

What other materials can you use if you don't have enough sugar cubes?

Look at examples of sugar cube igloos other people have built.

