

Engineering Everest

Can you cross the Icy gaps on the mountain?

The Challenge

Using paper can you construct an Ice ladder to span a 50cm gap. Then discover how much weight it can hold. Who will build the strongest Ice ladder?

Materials

- 20 sheets of paper
- Scissors and tape
- Something to use as weight
- Tables or books to create a gap

Set Up

-Practise with a range of ways to fold and roll paper to add strength to the ladder.

-Provide an area for construction and create a 50cm gap for testing

-Measure the gap with a tape measure.



Ice Fall Ladder Challenge

1. Were you successful in the challenge? Why or why not?

2. What was the most difficult part of the challenge?

3. What was the best ideas you came up with during the challenge?

4. How much weight was your ladder able to hold? How did you design it to hold weight?

5. What did you learn about construction and engineering during the challenge?

My Challenge Data

Length

Width

Number of rungs

Weight held