



# **HANDS-ON EXPERIMENTS**

SNOW TO GLACIER

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When winter comes, many places get a fresh fall of snow every year. In lowland areas, often, the snow melts as the seasons warm up again.

In higher areas, there's sometimes it stays a little colder year around and this seasons snow fall gets added to the last. As these layers build up, the snow below gets squeezed into a more solid form, ice. Every year, some snow melts, and some snow is added.

This buildup of snow and ice creates the glaciers that we see today. In this experiment we'll see how those tiny snowflakes create these massive glaciers.

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## INSTRUCTIONS

Step 1: Fill the glass jar with marshmallows;

Step 2: Cut out a cardboard disc so it covers but fits inside the glass jar;

Step 3: Place the cardboard disc on top of the marshmallows;

Step 4: Start to add weights to the disc. Add a set amount and observe the outcome;

Step 5: Observe over the lesson and see what happens to the marshmallow glacier.

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Approximate Time: 1 Full Lesson

## EQUIPMENT

Glass Jar  
Marshmallows  
Weights  
Cardboard  
Scissors



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## FURTHER INVESTIGATION

- Add more weights and observe the effect that is produced
- See what happens in other shape jars, would the marshmallows spread outward or just get less compressed?**
- Find out if the marshmallows stick together? Does the ice and snow stick to anything else on the mountain?



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# VIDEOS FOR THIS RESOURCE AT:

INTRODUCTION:



Clickable Link:

<https://youtu.be/v8mAApu5PMM>

CONCLUSION:



Clickable Link:

<https://youtu.be/lkT-maEBQoA>

