



# The Great Ice Melt-Off

EYEMART SCIENCE CHALLENGE CARD

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## 1. Preparation

### Safety First

- Risk assess for allergies & choking.
- Supervision required at all times.

 [Download Risk Assessment PDF](#)

### Mission Goals

- ✓ Explore cause and effect.
- ✓ Solve problems (trial & error).
- ✓ Descriptive temp. language.

### Equipment Checklist

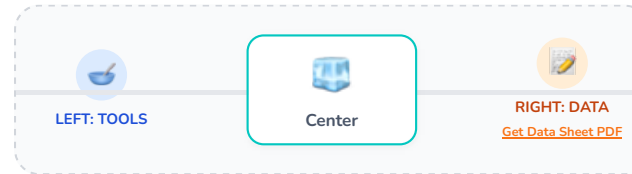
 **Subject:** Ice cubes / shapes.


 **Lab Bench:** Tuff Tray.

 **Accelerants:** Salt, Sugar, Sand, Warm/Cold Water.

 **Tools:** Clock, timer, camera.

## 2. The Experiment




- 1 Hypothesize**  
Estimate melting time.
- 2 Brainstorm**  
Ask: "How to melt these?"
- 3 Test It**  
Apply materials.  
 **Keep 1 control!**
- 4 Monitor**  
Check every 5-15 mins.
- 5 Conclusion**  
Compare to guesses.

## 3. Extensions

### Bonus Levels

 **Excavation**  
Freeze toys inside.

 **Shape Shift**  
Try different shapes.

 **Baby Mode**  
Freeze flowers/leaves.

### Video References

**Melting Ice With Salt** 

[THEDADLAB](#)

 Search: TheDadLab Melting Ice

**What Melts Ice Fastest?** 

[SCIENCE EXP.](#)

 Search: Ice Experiment What melts Ice

**Ice Sensory Bin** 

[BUSY TODDLER](#)

 Search: Busy Toddler Ice Sensory

 [Download Full Activity Guide PDF](#)

## EYFS DEVELOPMENT MATTERS GOALS

### Understanding the World

Explore the natural world around them. Talk about what they see, using a wide vocabulary.

### Communication & Language

Use a wider range of vocabulary. Ask questions to find out more and check they understand.

### Characteristics of Effective Learning

Creating and thinking critically: Making predictions and testing their own ideas.