

STEM



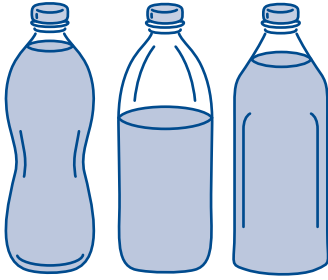
FREEZE OFF SOLIDIFICATION STUDY

Discover the different freezing
properties of liquids.



EMERSONTM

FREEZE OFF INSTRUCTIONS:



1

Choose different liquids for testing.

Examples: Water, vinegar, oil



2

Measure two tablespoons of each into separate plastic cups and place in the freezer.



3

Every thirty minutes, check on each sample with a toothpick and record your observations.



4

As your samples freeze, determine which liquid becomes solid most quickly.

TRY IT:

Experiment with themed categories, such as all breakfast drinks or all condiments. What are the results for each category?

HOW IT WORKS:

Liquids freeze at different temperatures because of the unique combinations of their specific molecules.

Substances made from molecules with weaker bonds need cooler temperatures to freeze.