

RELATED LEARNING ACTIVITIES

1. Explore Senses - Smell, Taste and Sight

The students should be provided with the opportunity to use their senses to explore the mysteries of maple sugar. Observe and record ordinary water, "maple sap" and "maple syrup".

	Water	Maple Sap	Maple Syrup
Sight			
Smell			
Taste			

Ask your class to suggest words to best describe the results of their sensory experience. Such as sweet, tart, sour, clear, etc.

2. Explore Temperatures -

The general temperature extremes of boiling (212 F/100 C) and freezing (32 F/0 C) can be demonstrated with the aid of a thermometer. Make observations of indoor and outdoor temperatures to provide experiential comparisons.

3. Explore Evaporation/Steam -

While the "maple sap" is boiling, hold a clear glass pie plate over the heated container. Caution: Remember, the steam and heat can cause injury.

The steam vapor raising from the boiling container should be described to the student as water in a gaseous state. With the glass pie plate held over the boiling sap, point out the moisture (water) on the glass.

Maple sap + heat $\begin{cases} \rightarrow \text{vapor} \rightarrow \text{water} \\ \rightarrow \text{maple syrup} \end{cases}$

