

Fluids  
Station #5  
Temperature vs. Viscosity

Task #1

Conduct the lab that is found at the station.

Complete the data table below.

<u>Temperature °C</u>	<u>Trial #1 (s)</u>	<u>Trial #2 (s)</u>	<u>Trial #3 (s)</u>	<u>Average (s)</u>

Conclusion: Make a general rule that explains the effects that temperature has on viscosity.

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Using the particle theory explain how your rule makes sense.

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*Task #2 is on other side of page*

Task #2

Determine at what temperature do other liquids need to reach to have a viscosity that is equal to water at 20° C?

Create a data table below.

<u>Object</u>	<u>Temperature</u>

Explain at least one thing that is related to viscosity, which could be an obstacle at honey factory?

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Knowing what you do about temperature and viscosity, why is it recommended that you allow your engine of your car to warm up before driving in the winter?

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