

Name  
TA

Chemistry 11  
2021-2022



## Learning Guide # 11: Solutions

**BIG IDEA:** Kinetic Molecular Theory, Intermolecular Forces, and Properties of Liquids

### Fundamental Knowledge (I know)

- How to explain what the Kinetic Molecular Theory is AND can describe the different states
- How can determine the type of intermolecular forces a compound should contain
- How to describe terms such as high surface tension and high heat capacity which are related to liquids and bonds

### Curricular Competencies (I can)

	Proficiency Scale Teacher and Student self assessment (Circle one)	Evidence (How do you know?)
<u>I can:</u> Demonstrate a sustained intellectual curiosity about a scientific topic or problem of personal interest.	<b>Emerging (EMG)</b> Initial Understanding  <b>Developing (DEV)</b> Partial/Near Complete Understanding  <b>Proficient (PRF)</b> Complete Understanding  <b>Extending (EXT)</b> Sophisticated Understanding	
Critically analyze the validity of information in primary and secondary sources and evaluate the approaches used to solve problems.	<b>Emerging (EMG)</b> Initial Understanding  <b>Developing (DEV)</b> Partial/Near Complete Understanding  <b>Proficient (PRF)</b> Complete Understanding  <b>Extending (EXT)</b> Sophisticated Understanding	

Student Signature:

Teacher Signature:

Date:

**Instructions** To help guide your learning, make your way through the activities in Option 1, Option 2, or Option 3. You may “mix and match” between the different Option columns.

TOPIC	OPTION 1	OPTION 2	OPTION 3
The Kinetics Molecular Theory AND Intermolecular Bonding	<p><b>Create</b> a glossary of the “Key Words” in chapter 11 for sections <b>11.1 - 11.3</b> (Pgs. 452 – 462)</p> <p><b>Read</b> Pages 452 - 459 and <b>complete Review Questions:</b> 11.1, 11.2, 11.3, 11.4, 11.5, and 11.6 on Pg. 494</p> <p><b>Complete “Example: Practice Exercises”</b> 11.1 and 11.2 on Pgs. 456 and 458.</p>	<p><b>Create</b> flash cards for each of the “Key Words” in chapter 11 for sections <b>11.1 - 11.3</b> (Pgs. 452 – 462)</p> <p><b>Complete Review Questions:</b> 11.1, 11.2, 11.3, 11.4, 11.5, and 11.6 on Pg. 494</p> <p><b>Complete “Example: Practice Exercises”</b> 11.1 and 11.2 on Pgs. 456 and 458.</p>	<p><b>Choose your own adventure!</b></p> <p>Pick up a planning sheet from the Science Kiosk.</p> <p>Create a plan! Make sure you read through the first page of this LG, as you will need to design ways to learn/practice and show your understanding of the topic(s) and skill(s) (competencies.)</p> <p>You will need to have a teacher approve your plan before beginning the LG.</p>
Properties of Liquids	<p><b>Read</b> Pages 459 - 462 and <b>complete Review Questions:</b> 11.21, 11.22, 11.25, and 11.30 on Pg. 495</p>	<p><b>Research</b> an organism that takes advantage of high surface tension AND explain how they use this to their advantage.</p> <p><b>Complete Review Questions:</b> 11.21, 11.22, 11.25, and 11.30 on Pg. 495</p>	
<b>Chapter Review</b>	<b>Complete “problems” 11.7, 11.10, 11.12, 11.31, 11.137, and 11.140</b>		
Lab	No Lab.		
Self Assessment	Reflect on the Fundamental Knowledge and Curricular Competencies. Use the rubric and make goals to improve for your next learning guide.		
Interview AND Quiz	See you teacher for an interview (Bring all your complete work to the interview) <b>AND</b> to have a quiz slip signed for the test center.		

Resources can be found at [www.THSSscience.com](http://www.THSSscience.com) or the Science Kiosk

User: **THSS**

Password: **science**