

Activity 1: KEEP ON MOVING!

MELC: Differentiate between heat and temperature at the molecular level

DIRECTIONS: Using the PhET simulator found in this link: https://tinyurl.com/matter-molecules, answer the questions below. Make sure to re-type the link in another browser.

Be guided with this rubric:

Score/s for each question	Question is left blank or incomplete Response includes an answer but does not include any or includes very minimal reasoning.						
0							
1							
2	Response includes an answer and detailed reasoning.						

https://peerinstruction.files.wordpress.com/2013/02/jitt-rubric1.png





- 1. To explore the simulation, click the STATES icon.
- 2. At the top right corner, select the type of element or compound from the Atoms & Molecules tab.
- 3. Choose which phase of matter the element or compound is.
- 4. Change the temperature in the adjustment bar located at the lowest part.
- 5. Start the simulation and answer the questions.

Questions:

- 1. What happens to the molecules of ice when temperature increases? Explain.
- 2. Describe the molecules of water vapor when temperature increases.

3. What happens to the molecules of water as the temperature drops? Explain.



	4. Con	pare the i	nolecules	of Neon, A at 100 Kel	Argon, Oxy	ygen and	water at liq	luid state	
	WIICII	are tempe	ature is t	100 1101	VIII.				
	5. Why	do molec	ules mov	e so fast w	hen heat	ed?			
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