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|  **Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_ Class: \_\_\_\_**  **Phases of Matter**  While watching, complete this video guide.  Three things I knew A- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  that were confirmed in  the video: B- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   C- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Three things I didn’t know A- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ but I now know because  I watched the video. B- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   C- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **\_\_** ∆ 1. Everything you can touch is made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .  **\_\_** ∆ 2. Solid, liquid, and gas are the 3 phases of energy / matter. **\_\_** ∆ 3. The atoms in a solid move more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than in a liquid.  **\_\_** ∆ 4. Matter can change phases by changing the amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .  **\_\_** ∆ 5. Air is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ nitrogen.  **\_\_** ∆ 6. Water vapor is an example of a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .  **\_\_** ∆ 7. Energy and atoms do / do not change the phases of matter.  **\_\_** ∆ 8. Absolute Zero is when energy / molecules stop moving. **\_\_** ∆ 9. You can use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to change a liquid into a gas.  **\_\_** ∆ 10. A soda is liquid that contains\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gas to make it bubble and fizz.  **\_\_** ∆ 11. A gas and a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ will take the shape of a container.  **\_\_** ∆ 12. The heating and cooling of molecules will make \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ change their state of matter.  **\_\_** ∆ 13. To change a gas to a liquid, you need to increase / decrease the amount of heat energy.  **\_\_** ∆ 14. To change a solid to a liquid, you need to increase / decrease the amount of heat energy .  **\_\_** ∆ 15. Changing a solid to a liquid to a gas is changing the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of matter.  |