Learning Target: I can predict how changes in temperature, pressure, volume, and density Of gases affect the other variables.

**Gas Laws 101 Video Notes**

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1. What are the three Gas Laws? _____
2. What relationship is each law based upon? _____
3. What is pressure? _____
4. How do gas particles affect the amount of pressure? _____
   _____
5. What is volume? _____
6. Which balloon has the most volume? Which balloon has the least volume?

   Which balloon has the most pressure? Which balloon has the least pressure?

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7. What is temperature? _____

8. Explain the relationship between particle movement, temperature, kinetic energy, and potential energy. _____

9. What is held constant in Boyle's Law? _____ Explain the relationship in Boyle's Law. _____

10. Copy and paste the graph for Boyle's Law to the right.

11. Name and copy and paste one example of Boyle's Law to the right.

12. What is held constant in Charles Law? _____ Explain the relationship in Boyle's Law. _____

13. Copy and paste the graph for Charles' Law to the right.

14. Name and copy and paste one example of Charles' Law below.

15. What is held constant in Gay-Lussac's Law? _____ Explain the relationship in Boyle's Law. _____

16. Copy and paste the graph for Gay-Lussac's Law to the right.

17. Draw and copy and paste one example of Gay-Lussac's Law to the right.

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Quiz Time! – Use your knowledge of the three gas laws to answer the following questions.

1. Myracle left a balloon outside on a very hot day. When she came back an hour later she noticed the balloon was larger. What best explains why the balloon became larger? _____ _____ What two factors is this a relationship between? _____ Which gas law is this? _____

2. Moesha transfers a gas from a larger container to a smaller container. If the temperature remains constant, what will happen to the pressure and volume of the gas when it is transferred? _____ _____ Which gas law is this? _____

3. Amia increased the temperature on some hotdogs she was cooking. If pressure remains constant, what will happen to the volume of the hotdogs? _____ _____ Which gas law is this? _____

4. Tyquarious is cooking beef stew on the stove. He places the top on the beef stew. If the volume remains constant, what factors will change in the pot as the beef stew cooks? _____ _____ Which gas law is this? _____

**Scan the QR Code below to take the Quiz!**

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