

# Video Worksheet

## The Atom P1 = Clash of the Titans

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Date: \_\_\_\_\_

1. Which scientist killed himself because of his depression over thinking he was wrong about the atom, even though he was actually correct?
2. What substance caused the scientific world to try and develop knowledge of the atom?
3. What year did Albert Einstein publish his proof on the existence of atoms?
4. What do we call the movement that was discovered by Brown?
5. "There are more atoms in a glass of \_\_\_\_\_ than there are glasses of \_\_\_\_\_ in all the oceans in the world."
6. Which two scientists worked at Manchester together in the early 1900's?
  - a. Which one loved to discover things by using experiments?
  - b. Which one approached things from a mathematical point of view?
7. Who was in charge of the experiment with the gold foil?
8. What two students actually performed the experiment?
9. What year did they do the experiment?
10. An electron will only give off color if it jumps from a \_\_\_\_\_ energy level to a \_\_\_\_\_ energy level.
11. Who was Bohr's biggest rival in the battle over the atom?
12. Who were the two scientists that were on opposite sides of the New vs. Old war about the mechanics behind the atom?
13. What math was created to explain why the commutative property of math did not work for atoms?
14. When did Heisenburg travel to Munich to confront Schrodinger?
15. What is Heisenburg's biggest contribution to the knowledge of the atom?
16. What year were Bohr and Heisenburg ready to take on the physics "conservatives"?
17. Who won the war between Bohr and Einstein over the atom?
18. When did the current view of the atom become accepted by the scientific community?