name:_	period:	id:
	Answer the questions to the best of your current knowledge! Point values are extra credit !!	
1. (2	points) Who is considered the father of modern atomic theory?	
(J.J. Thomson	
	○ Ernest Rutherford	
	○ John Dalton	
	○ Niels Bohr	
2. (2	points) Which of the following statements is part of Dalton's atomic theory?	
	Atoms can be created or destroyed.	
	○ All atoms of an element are identical.	
	○ Atoms are divisible into smaller particles.	
	O Atoms can exist in different states (solid, liquid, gas).	
3. (2	points) What subatomic particle was discovered using the cathode ray tube e. O Proton	xperiment?
	O Neutron	
	○ Electron	
	OPhoton	
4. (2	points) Rutherford's gold foil experiment led to the discovery of which atomic	e structure?
	○ Electron cloud	
	○ Nucleus	
	O Proton	
	O Neutron	
5. (2	points) Which particle has a negative charge?	
	O Proton	
	O Neutron	
	○ Electron	
- /-	○ All of the above	
6. (5	points) Ballance the following chemical equation:	
	$\mathrm{H_2} \ + \ \mathrm{O_2} \ \longrightarrow \ \mathrm{H_2O}$	(1)
7. (5	points) Describe the main idea of the plum pudding model proposed by J.J. $\overline{}$	Γhomson.
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the atom?

8.	(5 points) Explain how the Bohr model of the atom differs from Rutherford's model.		
9.	9. (5 points) What is an isotope? Provide an example.		
10.	(2 points) The atomic mass of an element is the average mass of all its isotopes.		
	○ True		
	○ False		
11.	(2 points) Neutrons are positively charged particles found in the nucleus of an atom.		
	○ True		
	○ False		

12. (5 points) How did the development of the quantum mechanical model improve upon earlier models of