

ATOMS

Intro: They're so unbe There are 2. And they may I They often stice	elievably small, y different typ be classed as 4 k together to ma	ou can line up 1 as pes, or 3 as or non-metallic ke 5 or latti	across the head of a pin. we like to call them, c. ices.				
They're atoms, They make up	hey brother. almost everythin	g we discovered!					
Verse 1: In ancient Gree If we keep cutt (He called then 9 S Reactions 10	ece, 6. ing stuff in half, e n atoms, which n aid an element v them,	thought he had a the eventually we'd reach a neans &, b vould have atoms all ali but they cannot be divi	eory might just fit, ^{7.} bit, out we had no evidence until) ike, ided.				
They're atoms, This is how we	hey sister. know what they	consist of.					
Verse 2: JJ Thomson fou He found they (How could any He said that at Where the cak They're atoms,	and 11 had a 12 ything be smaller oms were like pu ey bit was 14 hey brother.	_ when he put some ca charge and mass so • than a 13 i ddings that could not b , and electrons	othode rays to the test, small atom theory was in a mess. on!) be turned to crumbs, were the 15				
They're not the smallest thing we ever discovered.							
Verse 3: ^{16.} He knew he'd f He said that th But the theory Electrons stay i And when Char	scattered alpha r ound a 17 e electrons must had some proble in 19 in q dwick found the	ays through gold leaf in when some alpha be 18 arou ems until Neils Bohr fou uantum states where the 20, the atom r	n his lab. particles bounced right back. nd it, ınd, hey're bound, model was sound.				
They're atoms, That is how wh	ney're atoms, hey sister. That is how what we know what they consist of Complete the following tasks						
Fill out the table.			 Fill in the blank keywords and the table - if you are not sure, there are clues on the next page. 				
Particle	Mass	Charge	2. Circle sections in red that describe an atomic model .				
Proton			3. Circle sections in green that describe evidence.				
Neutron			4. Circle sections in blue that describe discoveries .				
Electron			5. Rewrite the lyrics in language that would be suitable				

5. Rewrite the lyrics in language that would be suitable for an exam.

Each of these words is used once.							
shells	positive	plums	118	molecules			
nucleus	neutron	rearrange	electrons	metals			
Elements	Rutherford	Democritus	uncuttable	Dalton			
100 million	negative	orbiting	hydrogen	smallest			

Definitions

- 1. A number.
- 2. A number of elements on the periodic table.
- 3. A type of atom.
- 4. A, malleable, shiny substance, that conducts electricity.
- 5. A particle made of one or more atoms stuck together.
- 6. Ancient Greek philosopher.
- 7. The least big
- 8. Impossible to break apart
- 9. The scientist, who in 1803 came up with the first modern description of atoms.
- 10. Put in a different order.
- 11. The smallest charged particles that can be found inside atoms.
- 12. Not positive or neutral.
- 13. The lightest element on the periodic table.
- 14. Not negative or neutral.
- 15. A fruit.
- 16. The person who discovered that atoms have a nucleus.
- 17. The part of the atom at the centre that contains most of the mass.
- 18. Circling another object.
- 19. An area around an atom where electrons can be found.
- 20. A neutral particle found in the nucleus of an atom.