

# Atomic Structure & Periodic Table Worksheet

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1. The table below shows the structure of different atoms and ions. Using the periodic table, complete the table with missing values.

Element	Atomic Number	Proton Number	Neutron Number	Electron Number	Mass Number
Mg	12		12		
Mg <sup>2+</sup>	12				24
F			10		
F <sup>-1</sup>			10		19

2. The table below gives the composition of three different particles X, Y, and Z.

Particle	Proton Number	Neutron Number	Electron Number
X	15	16	15
Y	15	16	18
Z	15	17	15

State the evidence in the table for each of the following statements.

- a) Particle X is an atom.

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- b) Particle Y is a negative ion.

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- c) X, Y, and Z are all particles of the same element.

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- d) Particles X and Z are isotopes of the same elements.

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- e) Particles X and Z have zero charges.

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# Chapter Test Atom And Periodic Table

**JG Myers**



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lialh oc ch<sub>3</sub> ch<sub>2</sub> benzaldehyde c<sub>6</sub>h<sub>5</sub>cho ch<sub>2</sub>ohch<sub>2</sub>oh h step 1 toluene oxidation with kmno<sub>4</sub> kmno<sub>4</sub> is a strong oxidising agent which oxidise toluene to benzaldehyde in 1st step

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mno<sub>4</sub><sup>-</sup> + 2e<sup>-</sup> + 2h<sup>+</sup> → mno<sub>3</sub><sup>-</sup> + h<sub>2</sub>o  
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