Grade Nine Guides



Papper 1 ATTOMIC STIRUCTIONE & THEE PERIODIC TABLE EXAM QUESTIONS

Exam questions per topic

Aiming at grade 8/9



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Chemistry - Paper 1		
Торіс	Question [marks]	Answer
Atomic structure and the periodic table	 Define the mass number of an atom [1 mark] Chadwick's experimental work on the atom led to a better understanding of isotopes. Explain how his work led to this understanding. [3 marks] 	
	 Explain how evidence from the alpha particle scattering experiment led to a change in the model of the atom from the plum pudding model [4 marks] 	
	 State two observations made about this reaction:Mg+HCl->MgCl+ H [2] Explain how a covalent bond holds together 2 atoms [2] Describe how mendeleev improve 	
	 Newlands periodic table Why did Mendeleev's periodic table become more widely accepted than previous versions? [3] 	
	 Give two reasons why the discovery of Gallium helped mendeleev's periodic table being accepted What is the modern name for atomic weight? In the modern periodic table, the elements are arranged in order of The plum pudding model did not have a nucleus. Describe three other differences between the nuclear model of the atom and the plum pudding model. [3 marks] Describe the change that Bohr made to the nuclear model. 	
	 [2 marks] A student suggested Mendeleev's reason for reversing the order was to arrange the 	

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elements in order of atomic number. Explain why the student's suggestion cannot be correct. [2 marks] - Give the correct reason > Describe what you would see when sodium reacts with chlorine. [2 marks]
 Explain where the reactivity increases going down Group 1 [4]
 Compare the chemical and physical properties of transition elements and Group One elements [6]
Explain in terms of electronic structure why fluorine is the most reactive element in Group 7 [3]

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