

Title : Science course unit 8.

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D. Johnson.

CU S100/08

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Seq.	Time	Footage	Sequence List	Sound Cue
1.	26"		A test to determine conductivity of carbon and aluminium shown. M.J. Pentz introduces the unit.	
2.	6'15"		L. Haynes with a periodic table. Alkali metals are tested in the following way to demonstrate one way in which elements can be classified. Lithium, Sodium, Potassium, Rubidium, Caesium are cut and exposed to air and water.	
3.	8'30"		Reaction of 4 halogens - Fluorine, Bromine, Chlorine, Iodine with phosphorous demonstrated in the lab.	
4.	14'45"		Using his large periodic table, L. Haynes discusses the physical characteristics of elements and groups of elements: Samples of each element is shown. Hayes tests the conductivity of selected samples of elements and on this basis divides the periodic table into two groups - metals and non-metals.	
5.	20'17"		D. Johnson heats test tubes containing NaBr and CBr ₄ over a mild flame. He notes the reactions. <i>NaCl</i> Johnsons then heats NaCl and CCl ₄ over a mild flame and notes the reaction. He then checks their conductivity.	
6.			The structure of carbon halides shown using molecular models.	
	22'00"		Sodium chloride structure shown with molecular model.	
	23'17"		Models of sodium ion surrounded by chloride ions and chloride ions surrounded by sodium ions.	
7.	24'30"		Professor Haynes sums up Credits.	