Title : Science course unit 4. Contributors : M.J. Pentz. F.R. Stannard. A.J. Walton. Form VTR				00520/1139 ad 19-10-70	
Producer: Nat Taylor. 1ST TX: 31-1-71					
Seq.	Time	Footage	Sequence List		Sound Cue
1.	6'03"		Introduction to electromagnetis in . Professor Pentz demonstrates the presence of electro- magnetic force using electrified brass rods. Attraction/deflection when a current passes through both is demonstrated.		
2.	10'21"		A.J. Walton demonstrates electric flow through wires. He shows that there is an actual flow by using a paddle device which is rotated by a flow of electrons passing over the paddles.		
	13'27"		Can the flow be co bb ected? Dr. Walton demon- strates that it can when he passes an electric current through metal spheres. Spheres are brought together through electromagnetic attraction and remain together when the current is switched off. The electrostatic force remains in the spheres.		
	17 140"		An oscilloscope is used to measure the amount of charge transferred.		
3.			Introduction to fields of for	ce.	
	18 '25" 21 '20"		Dr. Stannard uses models to demonstrate fields of force. He rolls ball bearings down a slope. They are deflected by irregularities in the slope. The force here is gravity.		
	22 115"		Diagram of an electron gun from a cathoderay tube is shown to demonstrate how this deflection by a field of force can be used to focus electrons.		
	24'30"		Dr. Stannard uses a two dimensional model to demonstrate the same point. Credits.		

PROGRAMME SEQUENCE LIST

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