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CU S100/01
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Form VTR

Title : Foundation course in science: an introduction

Contributors : Michael J. Pentz

Producer: Nat Taylor 1st TX. 10.1.71.

Seq.	Time	Footage	Sequence List	Sound Cue
1	2'13"		Introduction by M. Pentz. He discusses the inclined plane experiment students have done at home.	
2	4'51"		M. Pentz describes Galileo's inclined plane experiment and hypothesis. Pentz takes up ways in which Galileo overcame the problems imposed by the primitive Technology of his day to take his measurements. Shot of painting showing Galileo performing the experiment.	
3	9'43"		Pentz re-works the inclined plane experiment using rubber balls and a wooden board. He takes readings from various distances and writes these on a chart. Pentz squares the average times for each distance with a slide rule. These figures are plotted on a time x distance graph.	
4	11'39"		Pentz demonstrates and then describes Galileo's circle/chord theory. The apparatus for the circle/chord experiment consists of a circle with hollow tube chords down which balls are rolled.	
5	15'25"		Rotation experiment performed. Pentz rolls cylinders of various geometry and weight down a ramp. He then rolls train wheels down tracks.	
6			Pentz discusses scientific experimentation and and places where experimental research is done. Shots of: Biochemist in his lab. Physical chemist in his lab. Shot of the Optical Room at the Royal Observatory, Greenwich. Is astronomical observation experimentation? What constitutes experimentation? Pentz discusses this.	

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Continuation

Seq.	Time	Footage	Sequence List	Sound Cue
	21'34"		Shots of: Faraday's lab. CERN Laboratory, Switzerland and its 2 metre hydrogen bubble chamber.	
7	23'00"		Pentz continues describing experimental methods used by scientists in all sorts of laboratories.	