

GCSE Physics B (Twenty First Century Science)

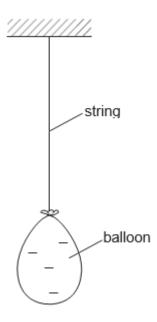
J259/02 Depth in physics (Foundation Tier)

Question Set 10

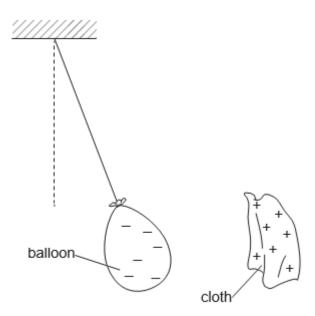
1 This question is about static electricity.

Jack rubs a rubber balloon with a dry cloth. The balloon becomes negatively charged and the cloth becomes positively charged.

He hangs the negatively charged balloon from a long piece of string. The balloon hangs vertically.



He now brings the positively charged cloth close to the balloon. The balloon now hangs at an angle to the vertical.



(a)	What is the name of the field that surrounds the charged balloon and cloth?				
	Put a ring around the correct answer.				
	electric	electromagnetic	gravitational	magnetic	[1]
(b)	Explain why the balloon no longer hangs vertically.				111
		15 attracte	ed to the	e cloth	[2]
due	to opposi	te charges.			1-1
(c)	Jack The balloon has picked up atoms from the cloth. Is Jack correct? Yes No				
	Explain your	choice.			
	only t	the electro	ons Mol	re.	[2]

Total Marks for Question Set 10: 5



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