

QUANTUM TUNNELLING COMPOSITE (QTC) - EXAMINATION QUESTIONS

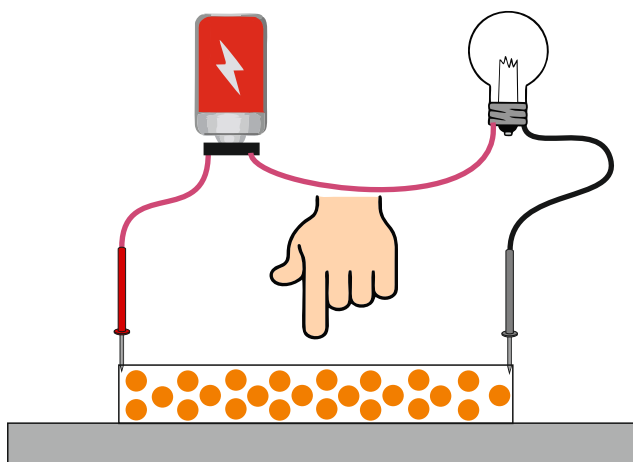
USEFUL LINK: http://www.technologystudent.com/despro_3/selfheal2.html

1. What is a Quantum Tunnelling Composite? **5 marks**

2. Add a second diagram and notes, to help explain how QTCs work. **6 marks**

(DIAGRAM ONE)

NO PRESSURE
BULB DOES NOT LIGHT



(DIAGRAM TWO)

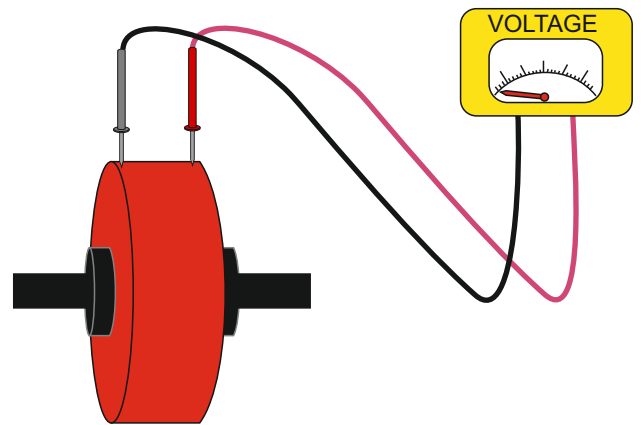
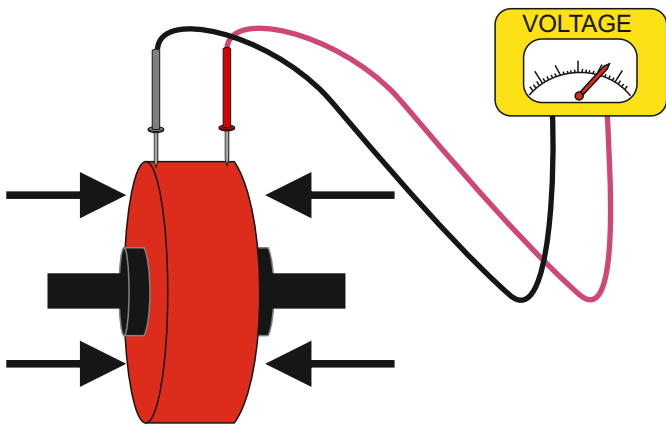
PIEZOELECTRIC MATERIAL - EXAMINATION QUESTIONS

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1. What is a Piezoelectric Material? **5 marks**

2. The two diagrams below, show a piezoelectric material under pressure (dia. 1) and the same material without pressure (dia. 2). Explain what is happening in both diagrams. **4 marks**



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3. With the aid of notes and a sketch(s), describe one practical example of a piezoelectric material. **6 marks**
