



برعاية معالي وزير التربية والتعليم

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وتوجيهات مساعد الوزير لشئون تطوير المناهج التعليمية
والمشرف على الإدارة المركزية لتطوير المناهج
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WEEK

(9)



الصف الثالث الإعدادي

Home work

الفصل
الدراسي الثاني

لجنة الإعداد والمراجعة

أ/ دعاء محمد عبدالعظيم

أ/ عادل محمد عبدالله الحفناوي

إشراف علمي

مستشار العلوم

د / عزيزة رجب خليفة

Lesson 1: Physical Properties of Electric Current**Lesson 2: Electric current and its sources****Question one****Question one****What happened if :**

- 1- Increasing the length of the rheostat wire built into an electrical circuit relative to the electrical current intensity.
- 2- Burning of the resistor in an electrical circuit relative to the readings of both the ammeter and voltmeter.
- 3- Increasing the potential difference between the two ends of a conductor when the temperature is constant relative to the electrical current intensity.

Question two:**Complete the following sentences with suitable words:**

- 1- The intensity of the electric current passing through a conductor is proportional to the resistance of the conductor and to the potential difference.
- 2- As the length of the wire in the variable resistance the increases and the decreases.
- 3- Electric cells produce current while the electric generators produce current.
- 4- Alternating current is used in while direct current is used in

Question three: -**Answer the following: -**

- 1- A conductor has a resistance of 44 ohms and the amount of electricity flowing in 1 second is 5 coulombs. Calculate its potential difference.
- 2- A heater has a resistance of 50 ohms and the current flowing through it is 4 amperes. Calculate the amount of electric potential difference between its ends.

Question 4:**What meant by:**

- 1- The resistance of a conductor is 100 ohms
- 2- The current flowing through a conductor with a resistance of 1 ohm = 5 amperes

Calculate the e.m.f. of each battery: