

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



تشك بوينت Activities – 2 Checkpoint

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التواصل الاجتماعي بحسب الصف السابع

روابط مواد الصف السابع على تلغرام

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المزيد من الملفات بحسب الصف السابع والمادة تصميم في الفصل الثاني

[تشك بوينت Activities – 2 Checkpoint](#)

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Computing Creative Design and Innovation – Grade 7

Checkpoint 2 – Activities

(40 marks total)

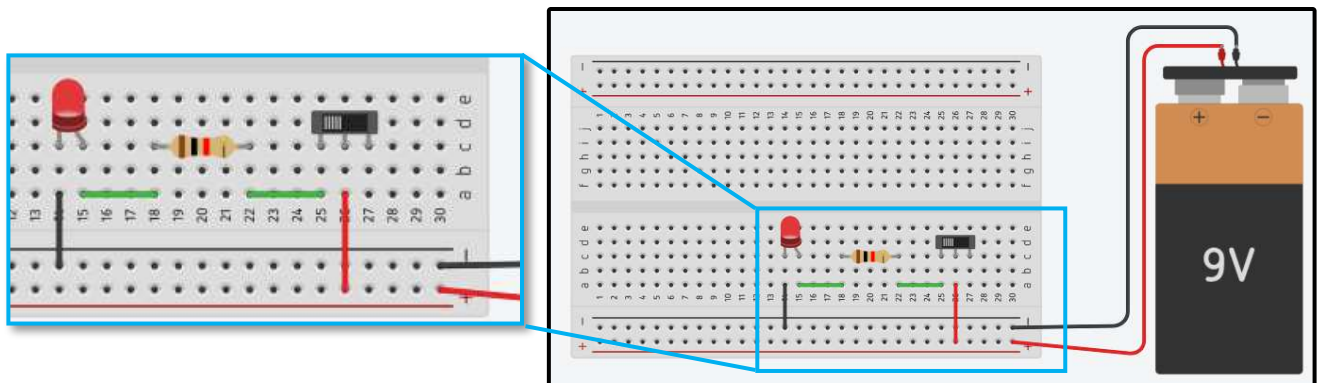
Student Name		Student ID	
School Name		Grade / Section	Date

Practical Activity A - (28 marks)

This activity is based on Activity 12 Unit 2 (Activity book p34)

The circuit below contains a 9v battery, a resistor, a slide switch and an LED. Some wires connect all the components together on a breadboard.

1. Create the circuit using an electronic circuit simulator (e.g., Tinkercad circuits).
2. Turn the simulation on. The LED should light up.





Copy and paste your completed circuit into the space below.

Wire

Battery

Light Bulb

Resistor

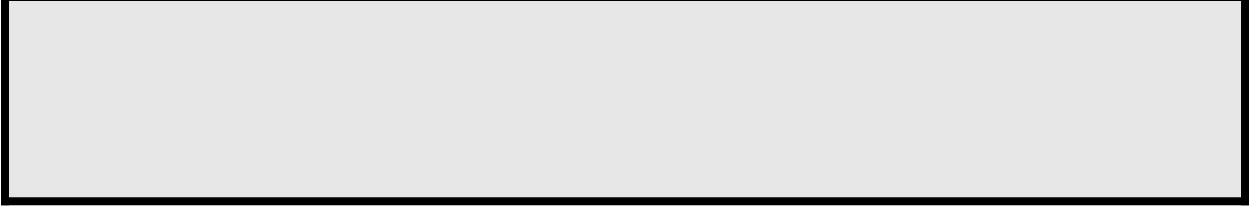
Switch

Tap circuit element to edit.

Circuit Construction Kit: DC

Intro

Lab



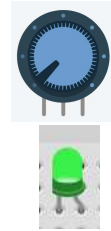


Practical Activity B - (12 marks)

This activity is based on Activity 12 Unit 2 (Activity book p34)

Create the same circuit as in part A, and add the following 3 changes.

1. Replace the switch with a potentiometer (variable resistor).
2. Change the value of the resistor to 400 ohms (10 ohms if using PHET simulator).
3. Add a green LED.



Copy and paste your completed circuit into the space below.

The screenshot shows the PHET Circuit Construction Kit: DC interface. On the left is a toolbar with icons for Wire, Battery, Light Bulb, Resistor, and Switch. The main workspace displays a circuit with a battery at the bottom, two light bulbs at the top, a resistor on the right, and a potentiometer on the left. Blue dots representing electrons are shown moving through the circuit. On the right, a control panel includes options for 'Show Current' (Electrons selected), 'Labels', and 'Values'. Below these are icons for a Voltmeter and Ammeters. At the bottom, there is a navigation bar with 'Circuit Construction Kit: DC', 'Intro', 'Lab', and the PHET logo.