

GRADE 10 PHYSICS TERM 3 RECORDS OF WORK - TRIUMPH

Week 1

TERM	WEEK	DATE	MON	TUE	WED	THU	FR I		
3	1								
SUBJECT & GRADE	DAY	PERIOD	STRAND & WORK COVERED					REFERENCE / MAIN BOOK AND ITS PAGES	REMARKS
Grade 10 Physics			Electricity and Magnetism - Current Electricity (Terminologies & Potential Difference): Defined current, potential difference, resistance, and e.m.f.; identified SI units and circuit symbols; discussed household appliance ratings. Assessed via oral questions and written assignments.					Triumph Physics 10, pg 213-214	
Grade 10 Physics			Electricity and Magnetism - Current Electricity (Ohm's Law & Electrical Resistance): Stated Ohm's Law; derived $V = IR$ from experimental data; solved numerical calculations for resistance, voltage, and current. Assessed via written assignments and observation.					Triumph Physics 10, pg 216	
Grade 10 Physics			Electricity and Magnetism - Current Electricity (Ohmic & Non-Ohmic Resistors; Effect of Length): Plotted and compared I-V graphs for carbon resistors and filament bulbs; investigated the effect of wire length on resistance. Assessed via practical assessment and observation.					Triumph Physics 10, pg 217 & 219	
Grade 10 Physics			Electricity and Magnetism - Current Electricity (Effect of Cross-Sectional Area): Measured resistance using nichrome wires of varying diameters (0.2 mm and 0.4 mm); established the inverse					Triumph Physics 10, pg 221	

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			relationship between area and resistance. Assessed via practical assessment and written assignments.		
Grade 10 Physics			Electricity and Magnetism - Current Electricity (Material Type, Temperature & Resistivity): Compared copper and nichrome wires; investigated heating effects on resistance; calculated values using $R = \rho l/A$. Assessed via practical assessment and oral questions.	Triumph Physics 10, pg 222 & 225	

General comments if any	Headmaster	Date
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Week 2

TERM	WEEK	DATE	MON	TUE	WED	THU	FRI
3	2						

SUBJECT & GRADE	DAY	PERIOD	STRAND & WORK COVERED	REFERENCE / MAIN BOOK AND ITS PAGES	REMARKS
Grade 10 Physics			Electricity and Magnetism - Current Electricity (Types of Resistors & Resistor Networks): Identified fixed and variable resistors (rheostats, potentiometers, thermistors); drew standard circuit symbols and tabulated their uses. Assessed via oral questions and observation.	Triumph Physics 10, pg 227	
Grade 10 Physics			Electricity and Magnetism - Current Electricity (Resistor Colour Codes): Read 4-band colour codes on fixed carbon resistors; calculated resistance values and tolerance limits;	Triumph Physics 10, pg 228	