GRADE 10 ELECTRICAL TECHNOLOGY RECORDS OF WORK 2027

Terms 1, 2 and 3 | Ministry of Education calendar 2027 (Senior School) | 6 lessons a week

Teacher's name _____ School _____

Class / stream _____ TSC number _____

TERM 1

Wk	Dates	Strand / sub-strand	Work covered	Reflection / remarks	Sign
1	4 Jan - 8 Jan (6 lessons)	**1.0 Fundamentals of Electrical Technology** - 1.1 Introduction to Electrical Technology	1. What electrical technology is, and how electricity is used 2. The importance of electrical technology in society 3. Careers in electrical technology 4. Career pathways, entrepreneurship and meeting a professional 5. Electrical hazards and the effects of electric shock 6. Safety rules, regulations and protective equipment		
2	11 Jan - 15 Jan (6 lessons)	**1.0 Fundamentals of Electrical Technology** - 1.1 Introduction to Electrical Technology - 1.2 D.C Circuits	1. Role play: applying safety regulations in the workshop 2. The roles of stakeholders in electrical safety 3. Drawing instruments and simple electrical drawings 4. Review: electrical technology as a career, and assessment 5. Electricity: charge, conductors, insulators and safety 6. The electric circuit, its symbols and its types		
3	18 Jan - 22 Jan (6 lessons)	**1.0 Fundamentals of Electrical Technology** - 1.2 D.C Circuits	1. Current, potential difference and e.m.f. 2. Resistance and resistivity 3. Resistors and the colour code 4. Ohm's law 5. Practical: verifying Ohm's law 6. Series circuits		
4	25 Jan - 29 Jan (6 lessons)	**1.0 Fundamentals of Electrical Technology** - 1.2 D.C Circuits	1. Parallel circuits 2. Series-parallel (combination) circuits 3. Kirchhoff's laws 4. Electrical power, energy and the cost of electricity 5. The heating effect of current, fuses and circuit protection 6. Practical: using a multimeter		
5	1 Feb - 5 Feb (6 lessons)	**1.0 Fundamentals of Electrical Technology** - 1.2 D.C Circuits - 1.3 Capacitors and Capacitance	1. Practical: building series and parallel lamp circuits and finding faults 2. Practical: tracing faults in d.c. circuits and appliances 3. Applications of d.c. circuits: home automation and car safety 4. D.c. circuits: problem solving and review 5. What a capacitor is and how it stores charge 6. Factors affecting capacitance		