TERM

LESSON PLAN 1
TECHNICAL SCIENCES
GRADE 10

KNOWLEDGE AREA	MECHANICS	TOTAL TIME: 61 DAYS
Term		
Unit 1	**Measurement** Units and measurements Scientific notation Working with formulae	
Date	**/ /20_ _**	
Resources	**Doc Scientia Textbook and Workbook** **Technical Sciences Grade 10** **P. 13 – 34**	
Time	**9 days**	
Core knowledge	**Measurement** • Units of measurement - CGS system - SI system List seven fundamental units. - Derived units - Prefixes - Conversions Conversion of units: CGS units to SI units and vice versa. - Units in technology Focus on the conversion of units with regards to technology. • Scientific notation - Use Use scientific notation to express a number as a force. - Constants Focus on examples that use scientific notation with regards to technology. • Use of formulae - Identifying formulae - Substitute and solve Replace the given values in the formula. Solve the unknown quantity. • Examples in technology Develop examples to solve problems by using equations in Technology.	

<table>
<tr><td>Core knowledge</td><td colspan="3">Guidelines for the teacher
• Focus on the conversions within the metric system to basic SI units.
• Focus on the conversion of km to m and from h to s.
• Strengthen the meaning of symbols in the formula, e.g.
P – pressure;
p – momentum;
V – volume;
v – velocity.</td></tr>
<tr><td>Activity/ Experiment/ Project</td><td colspan="3"></td></tr>
<tr><td rowspan="2">Assessment methods</td><td>Class test</td><td>Control test</td><td>Research project</td></tr>
<tr><td>Practical investigation</td><td>Class work</td><td>Building of models, posters or interviews</td></tr>
<tr><td>Resources</td><td colspan="3">Textbook and Workbook, transparencies
Summary P. 30 – 32
Mind maps P. 33</td></tr>
<tr><td>Homework</td><td colspan="3">Exercise 1 P. 15 – 17
Exercise 2 P. 21 – 24
Exercise 3 P. 26
Exercise 4 P. 28 – 30</td></tr>
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