Ch 36. Measurements and Units

<table>
<thead>
<tr>
<th>Quantity</th>
<th>SI Unit</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>Meter</td>
<td>m</td>
</tr>
<tr>
<td>Mass</td>
<td>Kilogram</td>
<td>kg</td>
</tr>
<tr>
<td>Time</td>
<td>Second</td>
<td>s</td>
</tr>
<tr>
<td>Area</td>
<td>Square meter</td>
<td>m²</td>
</tr>
<tr>
<td>Volume</td>
<td>Cubic meter</td>
<td>m³</td>
</tr>
</tbody>
</table>

Measuring Length

- Straight line: Ruler/meter stick
- Short curved line: Opsimeter
- Long curved line: Trundle wheel
- Diameter/width of solids: Vernier calipers

Measuring Area

- Regular shape: Length x breadth
- Irregular shape: Trace onto graph paper and count the boxes

Measuring Volume

- Regular shaped object: Length x height x breadth
- Irregular shaped object: Place in overflow can (volume displaced = volume of object)
- Liquids: Graduated cylinder

Ch 37. Energy
Colours

White light is a mixture of the 7 colours of the spectrum red, orange, yellow, green, blue, indigo, violet.

Dispersion is the breaking up of white light into its seven colours. This is done using a prism
Ch 49. Static Electricity

Electricity is a form of energy which can be converted into other forms of energy.

Static Electricity

Static Electricity is electricity that does not flow.

Friction causes the atoms of some materials to lose their electrons. A body becomes negatively charged if it gains electrons and becomes positively charged if it loses electrons.

Unlike charges attract, like charges repel.

Earthing

Earthing occurs when a charged object loses its charge to the earth through a conductor.

Lighting occurs when static electricity builds up on clouds. This static electricity earths by sparking to the ground.
Study Smart Revision Guides is a Transition Year Mini-Company. These booklets were produced by Niamh O’Dowd and Ciara Kinsella.

© Study Smart Revision Guides
All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the written permission of Study Smart Revision Guides.