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## YEAR PLAN AND CONTENTS

This book will treat the year's work for **Grade 10**, in the sequence shown below.

**NOTE:** This sequence is a small departure from the Official **CAPS** document.

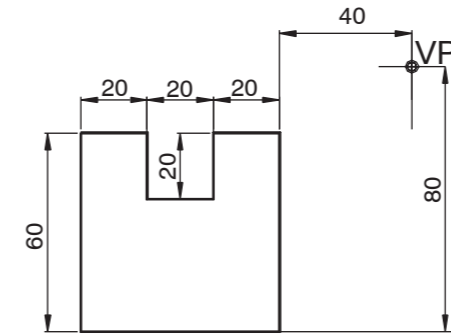
	Topic	Examinable Content
1	The outlay of the curriculum in this book.	The sequence of the curriculum, followed in this book. <b>P1</b>
2	Introduction to and the purpose of <b>EGD</b> .	Purpose; scope and career opportunities; classroom organization. <b>P2-20</b>
3	Analytical and visualization exercises.	Views, projection placings, width/depth/height. Applicable to Mechanical, Civil and Electrical drawings. <b>P21-60</b>
4	General drawing principles.	Use and care of drawing instruments; dangers of sharp instruments (HIV/Aids); line types and line work; lettering (writing) and annotations; dimensioning techniques and conventions. <b>P61-62</b>
5	Setting up a drawing sheet.	<b>A4</b> and <b>A3</b> drawing sheets with basic name/title blocks. <b>P63-64</b>
6	Freehand drawing.	Freehand drawing techniques. <b>P65-80</b>
7	Geometrical construction.	Instrumental constructions; regular polygons and ellipses. <b>P81-126</b>
8	Scales.	The application of any scale. <b>P127-136</b>
9	<b>PAT</b> - Practical Assessment Task	The design process: Problem identification; design brief; specifications; limitations; research; ideas and concepts; selection; presentation and evaluation.
10	Descriptive geometry.	Points and line segments; true lengths; true inclinations and true shapes. <b>P137-164</b>
11	Solid geometry and sections.	Right-regular solids, with sections and true shapes. <b>P165-198</b>
12	Mechanical drawing.	All Mechanical drawings must be presented as <b>3rd</b> Angle Orthographic working drawings, as per <b>SANS</b> guidelines. Castings only. <b>P199-274</b>
13	Isometric drawing.	Simple isometric drawings, with auxiliary views. <b>P275-302</b>
14	<b>PAT</b> - Practical Assessment Task	Design brief; specifications and constraints; external research. Three ideas, analytical and graphic (freehand drawings). The best solution.
15	Perspective drawing.	<b>Single</b> -point perspective drawing. <b>P303-320</b>
16	Civil drawing.	Single-storey dwellings; floor plans; basic single line elevations; sectional elevations, foundation to slab; annotations and labels; dimensioning; scales; abbreviations; coventions; on the floor plan: only doors and windows; hatching; perimeters and areas. <b>P321-334</b>
17	Electrical and Electronic drawing.	Simple circuit diagrams. <b>P335-348</b>

10-177-A (WEEK 24-25)

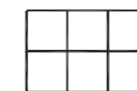
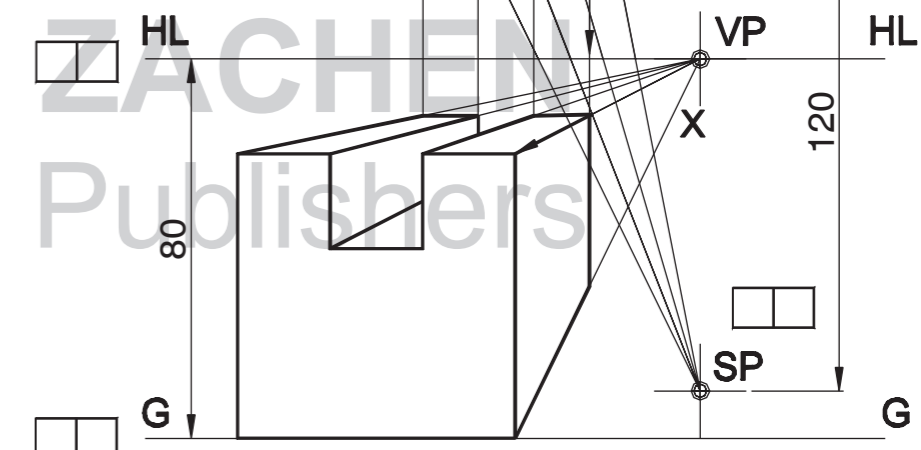
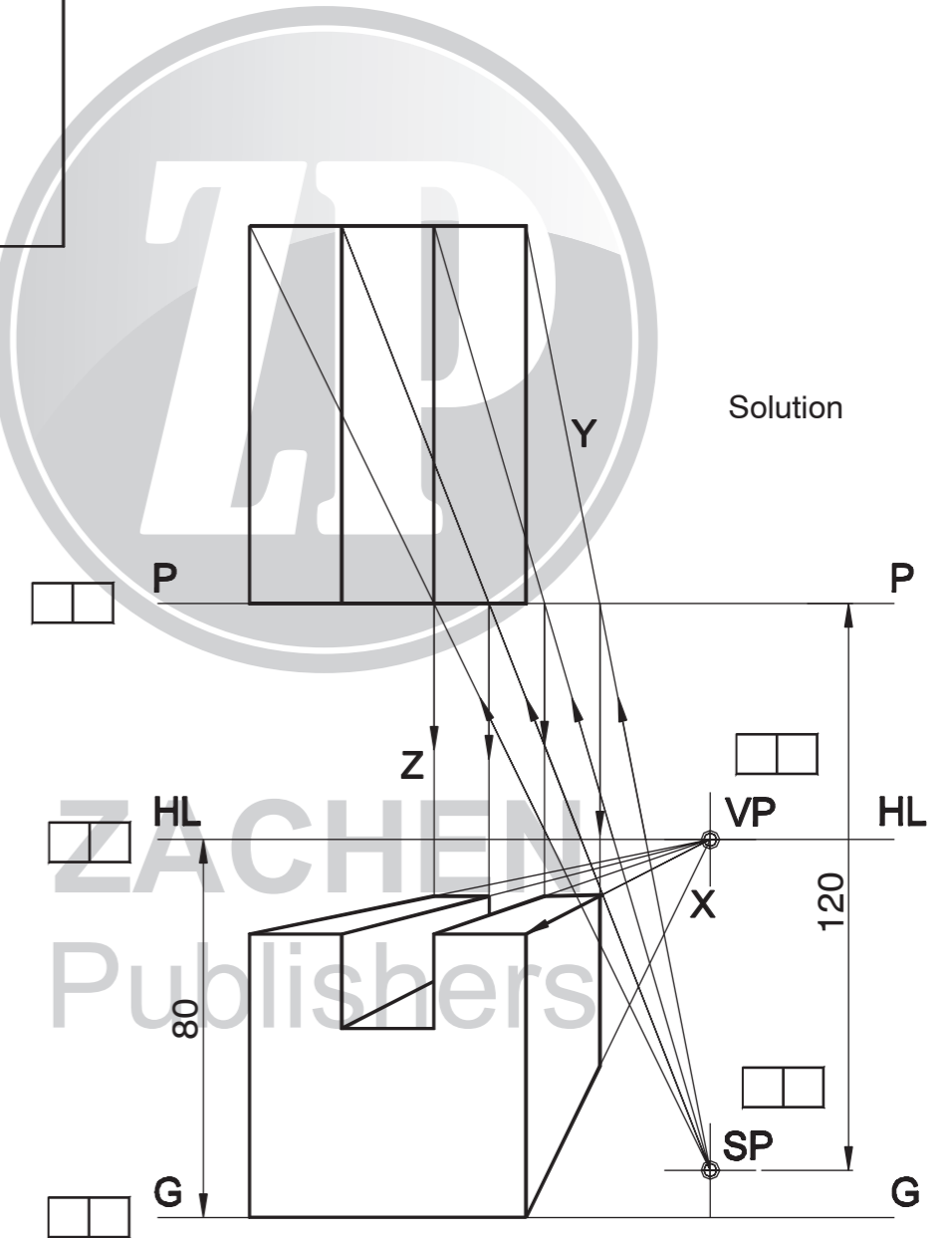
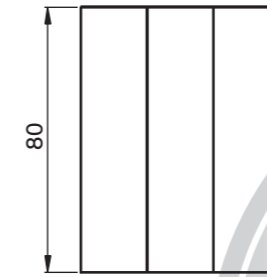
1. Draw the **P-P**.
2. Draw the **top view** against the **P-P**.
3. Place the **VP** and **SP** points.
4. Draw the **G-G** line.
5. Draw the front profile on **G-G**.
6. From the **SP**, draw rays to the **back** of the top view . (Rays **Y**).
7. From the **VP**, draw rays to the front view profile (i.e. rays **X**).
8. From the intersections of rays **X** with the **P-P**, draw vertical projection lines, **Z**, to intersect with rays **X**.
9. Draw the perspective view, using these intersections.



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The **SP** is 120 mm from the **PP**



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10-177-A

**10-187-A (WEEK 26-27)**

**TEACHER**

1. Use your common sense/imagination here. No specific example can be treated here, as no two Learners will (or should) give the same answer!
2. Allow Learners to use colour.
3. Freehand or instruments.

Linework and neatness			
Titles/terms (printing)	5	10	10
Proportions			
Correctness (icons; SANS; etc.)			

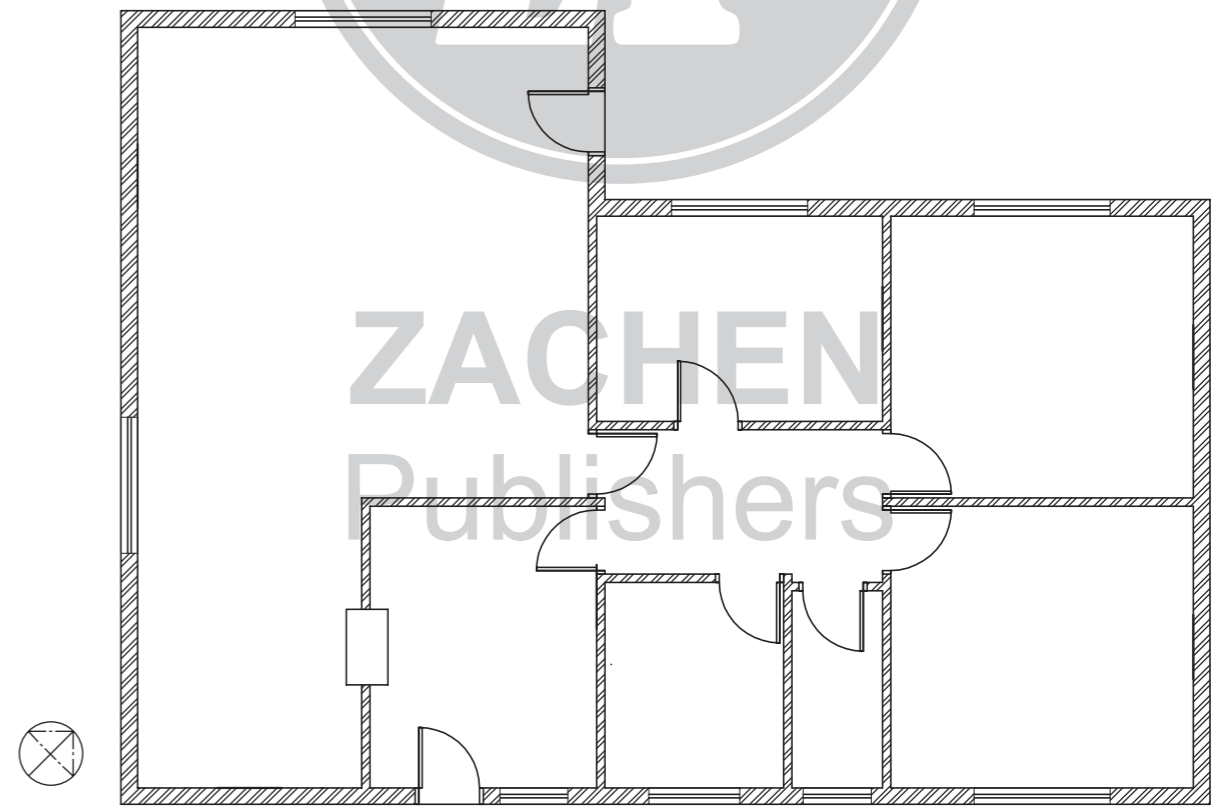
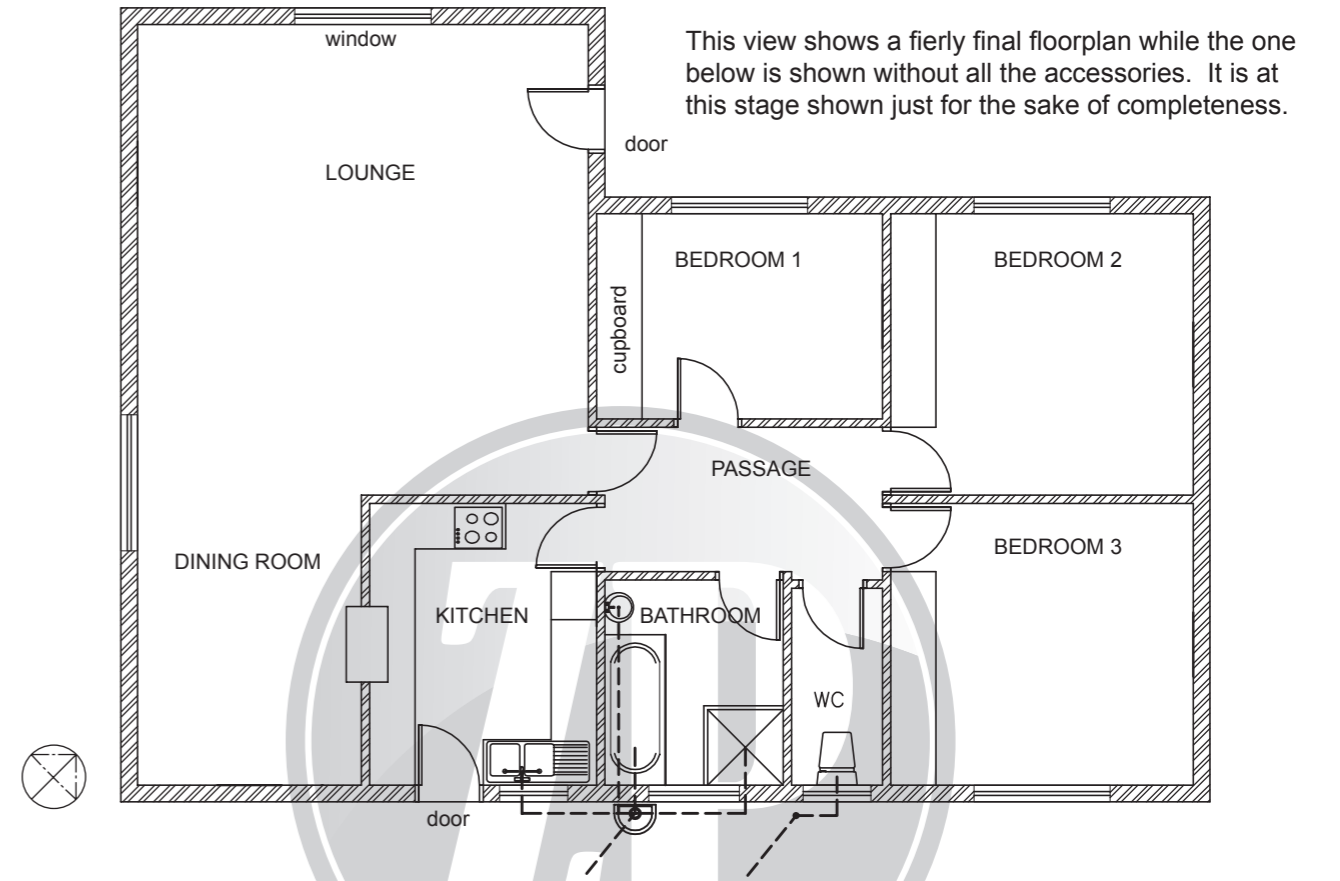
  

Creative/sensible			
Doors (placement/opening)	10	15	15
Windows (placement/opening)			

Appliances (present placement)	10	5	10	5
Cupboards (present placement)				
Bathroom layout				
Kitchen layout				

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SCALE  
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10-187-A