

TERM 1 UNIT PLAN GRADE 11 TECHNICAL DRAWING						PETER JOHNSON	
Weeks	Subtopics	Specific objectives	Contents (will be detailed in lesson plan)	Methodology	Procedures/ Activities	Materials	Assessments
1-2 INTRODUCTIO SBA(RESEARCH)	Introduction and discussion of course outline SBA requirements and deadline Course expectations Lines and instrumentation	To familiarize students with the expectations and course requirements Identify and state the use of common drawing tools and equipment used in TD	Basic concepts in Technical Drafting	Question and answer	Discussion Discuss the relevance of the course Video presentation of the use of drawing tools ppt on classification of drawing tools and types of lines	Syllabus, books ,pens ,pencils	SBA 1 Research on lines and Instruments
3-4 CAD principles	• Basic drafting and design	Apply the use of ICT's in design, drafting and communication. Explore /understand CAD Applications	Basic drafting and designing principles.	Viewing and discussing videos, images and working drawings Guided practice/ modeling	Introductionto brainstormingprinciples andpractices Examination of the principles of design Exploration of CAD Applications TeamCollaboration & simulationexercises	Useofonlineand offlineresources Computer Aided design Software, computers, Internetaccess Use simple CAD resources	Design and draw sketches Read and Interpret Drawings Students observed individual or in groups executing design and drafting exercises
5-6 SBA(RESEARCH) OHS ACT	Careers in TD	Explore opportunities for a career in Technical Drafting	Related careers in TD Safety procedures . Identification of hazards, risks and control on damaged equipment in the environment . Organizational safety and health protocol	Class discussion, Video presentation Question & answer Note taking	Discuss the relevance of the course	Useonlineources ppt presentation	Research project 2 OHS act & Careers in TD Teacher prepared class quiz
7-8 SBA PLANE GEOMETRY	LOCUS	Use traditional and CAD application to construct Circles and ellipse, parabola, ,helix	Locus types and applications	Demonstration// Guided practice Individual practice	Students will watch videos relating to locus Complete activity as instructed by the teacher	Computer with cad application Internet Online videos	Construction Worksheets Complete specific example for sba.

<p>9-10 Sba Solid geometry</p>	<p>Developments of geometric solids</p>	<p>understand the principles of projecting lines, planes, and views in solid geometry; 2. develop proficiency in the use of equipment, tools and materials using the principles and practices in traditional and conventional drawing methods</p>	<p>Types of solids Cones, Cylinder, prisms and pyramids</p>	<p>Class discussion, Video presentation Question & answer Note taking Demonstration// Guided practice Individual practice</p>	<p>Students will watch videos relating to locus Complete step by step approach given by teacher</p>	<p>Computer with cad application Internet Online videos</p>	<p>Worksheets Individual Practice Guided practice with special examples for SBA</p>
<p>11-12</p>	<p>What is development? Procedures for obtaining developments of geometric solids</p>	<p>explain the importance of surface development. construct surface development of oblique and frustum solids;</p>	<p>Concepts of development</p>	<p>Demonstration// Guided practice Individual practice</p>	<p>Observe procedure and apply outlined principles</p>	<p>Video presentation/illustration/ Modelling Peer share</p>	<p>Worksheets Individual Practice Guided practice with special examples for SBA</p>