

RATIONALISED SCHEMES OF WORK



PRE-TECHNICAL STUDIES

GRADE 9

TERM 3

TEACHER'S NAME.....

TSC NUMBER.....

SCHOOL.....

WK	LSN	STRAND	SUB-STRAND	LESSON LEARNING OUTCOMES	LEARNING EXPERIENCES	KEY INQUIRY QUESTIONS	LEARNING RESOURCES	ASSESSMENT METHODS	REFL
	1	Tools and Production	Project - Identifying problems to be solved	By the end of the lesson, the learner should be able to: - Identify problems in the locality - Describe causes of identified problems - Show interest in solving community problems	- Explore the locality to identify problems - Observe activities in different areas of the locality - Interview community members about challenges - Record findings in a structured format	What problems in our locality can be solved using skills from Pre-Technical Studies?	- Spotlight Pre-Technical Studies Learner's Book pg. 153 - Community resources - Questionnaires - Recording materials	- Observation - Interview assessment - Field notes	
	2	Tools and Production	Project - Identifying problems to be solved	By the end of the lesson, the learner should be able to: - Analyze collected data on community problems - Select problems that can be solved using acquired skills - Appreciate the value of problem-solving	- Analyze data collected during community visit - Identify skills learned in Pre-Technical Studies - Select problems that can be solved using the skills - Describe how solving the problems benefits the community	Which problems can be effectively addressed with our existing skills?	- Spotlight Pre-Technical Studies Learner's Book pg. 154 - Collected data - Digital resources - Presentation materials	- Data analysis - Oral presentation - Written assignments	
	3	Tools and Production	Project - Selecting an item to solve the identified problem	By the end of the lesson, the learner should be able to: - Identify possible items to solve the identified problem - Select an appropriate item based on specific criteria - Show creativity in problem-solving	- Discuss how the identified problem can be solved - Use available resources to search for possible solutions - Identify items that can solve the problem - Suggest technical skills needed to make the items	How do we determine the most appropriate solution to our identified problem?	- Spotlight Pre-Technical Studies Learner's Book pg. 154 - Digital resources - Reference materials - Problem analysis tools	- Observation - Oral presentation - Solution assessment	
	4	Tools and Production	Project - Selecting an item to solve the	By the end of the lesson, the learner should be able to: - Identify possible items to solve	- Discuss how the identified problem can be solved	How do we determine the most	- Spotlight Pre-Technical Studies	- Observation - Oral presentation -	

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			identified problem	the identified problem - Select an appropriate item based on specific criteria - Show creativity in problem-solving	- Use available resources to search for possible solutions - Identify items that can solve the problem - Suggest technical skills needed to make the items	appropriate solution to our identified problem?	Learner's Book pg. 154 - Digital resources - Reference materials - Problem analysis tools	Solution assessment	
2	1	Tools and Production	Project - Selecting an item to solve the identified problem	By the end of the lesson, the learner should be able to: - Evaluate potential solutions based on effectiveness - Consider resources, skills, and time constraints - Value sustainable problem-solving approaches	- Discuss possible items that can be made to solve the problem - Consider materials and tools required - Evaluate skills required and cost implications - Select one item to make for solving the problem	What factors should we consider when selecting a solution?	- Spotlight Pre-Technical Studies Learner's Book pg. 155 - Digital resources - Reference materials - Evaluation tools	- Observation - Decision-making assessment - Written justification	
	2	Tools and Production	Project - Making an item to solve the problem	By the end of the lesson, the learner should be able to: - Sketch the selected item - Plan the making process - Show creativity in design	- Make freehand sketches of the selected item - Use resources to find steps for making the item - Create a plan for making the item - Prepare material and tool lists	How should we plan the making process?	- Spotlight Pre-Technical Studies Learner's Book pg. 155 - Drawing materials - Digital resources - Reference materials	- Sketches assessment - Planning assessment - Oral presentation	
	3	Tools and Production	Project - Making an item to solve the problem	By the end of the lesson, the learner should be able to: - Identify materials and tools needed - Source materials from the locality - Show responsibility in resource gathering	- Use resources to identify materials and tools needed - Select appropriate materials and tools - Identify places to source materials	What locally available materials can we use for our project?	- Spotlight Pre-Technical Studies Learner's Book pg. 156 - Local materials - Digital	- Material selection - Sourcing strategy - Resource management	

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					- Collect and store materials safely		resources - Tool catalogs		
	4	Tools and Production	Project - Making an item to solve the problem	By the end of the lesson, the learner should be able to: - Follow safety procedures - Use tools and materials appropriately - Show responsibility during the making process	- Wear appropriate safety gear - Assemble materials and tools - Inspect tools for good condition - Begin making the item following planned steps	What safety considerations are important during the making process?	- Spotlight Pre-Technical Studies Learner's Book pg. 156 - Safety gear - Tools and materials - Work space	- Observation - Safety compliance - Work progress	
3	1	Tools and Production	Project - Making an item to solve the problem	By the end of the lesson, the learner should be able to: - Apply making skills effectively - Solve problems encountered during making - Show persistence in completing tasks	- Continue making the designed item - Apply appropriate techniques - Solve challenges encountered - Document the making process	How can we overcome challenges during the making process?	- Spotlight Pre-Technical Studies Learner's Book pg. 156 - Tools and materials - Safety gear - Work space	- Practical work - Problem-solving - Process documentation	
	2	Tools and Production	Project - Making an item to solve the problem	By the end of the lesson, the learner should be able to: - Apply making skills effectively - Solve problems encountered during making - Show persistence in completing tasks	- Continue making the designed item - Apply appropriate techniques - Solve challenges encountered - Document the making process	How can we overcome challenges during the making process?	- Spotlight Pre-Technical Studies Learner's Book pg. 156 - Tools and materials - Safety gear - Work space	- Practical work - Problem-solving - Process documentation	
	3	Tools and Production	Project - Making an item to solve the problem	By the end of the lesson, the learner should be able to: - Complete the making process - Evaluate the finished item - Show pride in the finished product	- Complete the making of the designed item - Clean the working area and tools - Store tools properly - Evaluate the finished item	How can we evaluate the quality of our finished item?	- Spotlight Pre-Technical Studies Learner's Book pg. 156 - Tools and materials - Cleaning supplies	- Product assessment - Workspace management - Self-evaluation	

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							- Evaluation tools		
	4	Tools and Production	Project - Making an item to solve the problem	By the end of the lesson, the learner should be able to: - Calculate the cost of the item - Determine an appropriate price - Show understanding of basic costing	- Estimate the total cost spent to make the item - Calculate the profit margin - Determine the selling price - Document the costing process	How do we determine the cost and appropriate price for our item?	- Spotlight Pre-Technical Studies Learner's Book pg. 156 - Cost calculation tools - Digital resources - Pricing guides	- Cost calculation - Pricing strategy - Documentation assessment	
4	1	Tools and Production	Project - Making an item to solve the problem	By the end of the lesson, the learner should be able to: - Present the finished item effectively - Explain how the item solves the identified problem - Value feedback for improvement	- Present the finished item to the class - Explain how the item solves the identified problem - Demonstrate how the item works - Receive feedback from classmates	How effectively does our item solve the identified problem?	- Spotlight Pre-Technical Studies Learner's Book pg. 156 - Finished item - Presentation materials - Feedback forms	- Presentation - Product demonstration - Peer feedback	
	2	Tools and Production	Project - Utilizing skills to solve problems	By the end of the lesson, the learner should be able to: - Use the item to solve the identified problem - Document the problem-solving process - Show responsibility in applying solutions	- Use the item to solve the identified problem - Document the application process - Observe the effectiveness of the solution - Make necessary adjustments	How can we effectively implement our solution in the community?	- Spotlight Pre-Technical Studies Learner's Book pg. 157 - Finished item - Documentation tools - Community resources	- Implementation assessment - Documentation review - Problem-solving effectiveness	
	3	Tools and Production	Project - Utilizing skills	By the end of the lesson, the learner should be able to: - Evaluate the success of the	- Evaluate how well the item solved the problem	What have we learned from this project and	- Spotlight Pre-Technical Studies	- Solution evaluation - Improvement	

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			to solve problems	solution - Identify areas for improvement - Show commitment to continuous improvement	- Identify strengths and weaknesses of the solution - Suggest improvements for future projects - Complete a self-reflection form	how can we improve?	Learner's Book pg. 157 - Evaluation tools - Self-reflection forms - Feedback data	suggestions - Self-reflection	
	4	Tools and Production	Project - Utilizing skills to solve problems	By the end of the lesson, the learner should be able to: - Evaluate the success of the solution - Identify areas for improvement - Show commitment to continuous improvement	- Evaluate how well the item solved the problem - Identify strengths and weaknesses of the solution - Suggest improvements for future projects - Complete a self-reflection form	What have we learned from this project and how can we improve?	- Spotlight Pre-Technical Studies Learner's Book pg. 157 - Evaluation tools - Self-reflection forms - Feedback data	- Solution evaluation - Improvement suggestions - Self-reflection	
5	1	Tools and Production	Project - Utilizing skills to solve problems	By the end of the lesson, the learner should be able to: - Share project learning with the community - Promote sustainable problem-solving - Value community engagement	- Present the project to community members - Explain the problem-solving process - Demonstrate how the solution works - Gather community feedback	How can we share our learning and solutions with the wider community?	- Spotlight Pre-Technical Studies Learner's Book pg. 157 - Finished item - Presentation materials - Community venue	- Community presentation - Engagement assessment - Feedback collection	
	2	Tools and Production	Project - Utilizing skills to solve problems	By the end of the lesson, the learner should be able to: - Document the entire project process - Create a comprehensive project report	- Create a comprehensive project report - Include problem identification, solution development, implementation, and	How can we document our project journey for future reference?	- Spotlight Pre-Technical Studies Learner's Book pg. 157 - Project documentation	- Project report - Documentation quality - Presentation skills	

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6				- Show appreciation for skills acquired	evaluation - Reflect on skills acquired and applied - Present the final report		- Digital resources - Reporting templates		
	3	Entrepreneurship	Financial Services - Financial institutions available in Kenya	By the end of the lesson, the learner should be able to: - Identify financial institutions in Kenya - Give examples of financial institutions - Show interest in financial institutions	- Study images of financial institutions - Identify types of financial institutions shown - Give examples of financial institutions identified - Name financial institutions available in the locality	What financial institutions do you know?	- Spotlight Pre-Technical Studies Learner's Book pg. 160 - Pictures of financial institutions - Digital resources - Charts - Spotlight Pre-Technical Studies Learner's Book pg. 161 - Reference materials	- Observation - Oral questions - Written assignments	
	4	Entrepreneurship	Financial Services - Classification of financial institutions in Kenya	By the end of the lesson, the learner should be able to: - Identify classifications of financial institutions - Compare banking and non-banking institutions - Value the diversity of financial institutions	- Study a presentation on classification of financial institutions - Identify the classifications of financial institutions - Brainstorm on each classification - Create a comparison table for the classifications	How are financial institutions classified in Kenya?	- Spotlight Pre-Technical Studies Learner's Book pg. 162 - Presentation materials - Digital resources - Charts	- Observation - Oral questions - Table assessment	
6	1	Entrepreneurship	Financial Services - Services offered by financial	By the end of the lesson, the learner should be able to: - Identify services offered by financial institutions	- Select a type of financial institution to research - Use digital devices	What services do financial institutions provide to	- Spotlight Pre-Technical Studies Learner's Book	- Research assessment - Oral	

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			institutions in Kenya Government and Business - Reasons for government involvement in business	- Match services to specific institutions - Show interest in financial services	or reference materials to search for services offered - Make a presentation of findings - Create a chart of services offered by different institutions	individuals and businesses?	pg. 164 - Digital resources - Reference materials - Presentation tools - Spotlight Pre-Technical Studies Learner's Book pg. 169 - Pictures showing government involvement - Charts	presentation - Chart quality	
	2	Entrepreneurship	Government and Business - Reasons for government involvement in business Government and Business - Ways of government involvement in business	By the end of the lesson, the learner should be able to: - Analyze specific reasons for government involvement - Give examples of each reason - Value government's role in ensuring fairness	- Study flashcards showing reasons for government involvement - Discuss each reason and give examples - Write down the discussion in exercise books - Present the findings in class	How does government involvement in business benefit citizens?	- Spotlight Pre-Technical Studies Learner's Book pg. 170 - Flashcards - Digital resources - Reference materials - Spotlight Pre-Technical Studies Learner's Book pg. 171 - Pictures of regulatory actions	- Discussion assessment - Written notes - Oral presentation	
	3	Entrepreneurship	Government and Business - Ways of	By the end of the lesson, the learner should be able to: - Describe various ways of	- Use available resources to search for information on	What are the different ways the government	- Spotlight Pre-Technical Studies	- Research assessment - Oral	

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			government involvement in business	government involvement - Explain the importance of each involvement method - Appreciate government's role in business	government involvement in business - Describe ways government gets involved - Present findings in class - Create a chart showing ways of government involvement	gets involved in business?	Learner's Book pg. 172 - Digital resources - Reference materials - Charts	presentation - Chart quality	
	4	Entrepreneurship	Government and Business - Types of taxes in Kenya	By the end of the lesson, the learner should be able to: - Define taxes and their importance - Identify sources of government funds - Value the role of taxes in development	- Study pictures of public facilities - Identify public facilities and services they provide - Discuss sources of government funding - Explain the meaning and importance of taxes	Why is it important to pay taxes?	- Spotlight Pre-Technical Studies Learner's Book pg. 173 - Pictures of public facilities - Digital resources - Charts	- Observation - Oral questions - Discussion assessment	
7	1	Entrepreneurship	Government and Business - Types of taxes in Kenya	By the end of the lesson, the learner should be able to: - Identify different types of taxes in Kenya - Explain the purpose of each tax type - Show responsibility towards tax compliance	- Use available resources to find information about tax types - Discuss types of taxes (income tax, VAT, corporate tax, excise duty) - Find out current rates of each tax type - Present findings in class	What are the different types of taxes collected in Kenya?	- Spotlight Pre-Technical Studies Learner's Book pg. 175 - Digital resources - Reference materials - Charts	- Research assessment - Oral presentation - Written assignments	
	2	Entrepreneurship	Government and Business - e-Government	By the end of the lesson, the learner should be able to: - Define e-Government services	- Analyze a case study on e-Government - Define e-	How has e-Government improved	- Spotlight Pre-Technical Studies	- Case study analysis - Oral questions -	

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8			services in business	- Identify e-Government services in business - Appreciate the value of digital government services	- Government services - Identify e-Government services for business - Discuss benefits of e-Government services	business processes?	Learner's Book pg. 176 - Case study - Digital resources - Reference materials	Written assignments	
	3	Entrepreneurship	Business Plan - Importance of a business plan	By the end of the lesson, the learner should be able to: - Define a business plan - Explain the importance of a business plan - Value the role of planning in business	- Brainstorm on the meaning and importance of a business plan - Discuss how a business plan helps entrepreneurs - Explain reasons for making a business plan - Share findings with the class	Why is a business plan important for entrepreneurs?	- Spotlight Pre-Technical Studies Learner's Book pg. 180 - Digital resources - Reference materials - Video link	- Observation - Oral questions - Discussion assessment	
	4	Entrepreneurship	Business Plan - Importance of a business plan	By the end of the lesson, the learner should be able to: - Search for information on business plans - Describe benefits of business planning - Show interest in business planning	- Use available resources to search for information on business plans - Watch a video on the importance of business plans - Note down findings - Present findings in class	How does a business plan contribute to business success?	- Spotlight Pre-Technical Studies Learner's Book pg. 181 - Digital resources - Reference materials - Video link	- Research assessment - Note-taking - Oral presentation	
	1	Entrepreneurship	Business Plan - Components of a business plan	By the end of the lesson, the learner should be able to: - Identify components of a business plan - Describe each component - Value the structure of a business plan	- Study a chart showing components of a business plan - Describe each component - Study sample business plans - Present the discussion in class	What are the key components of a successful business plan?	- Spotlight Pre-Technical Studies Learner's Book pg. 183 - Charts - Sample business plans	- Observation - Oral presentation - Written assignments	

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