



GRADE 10 POWER MECHANICS SCHEMES OF WORK FOR TERM 1

NAME OF THE TEACHER:.....

SCHOOL:..... YEAR:.....

WK	LSN	STRAND	SUB-STRAND	LESSON LEARNING OUTCOME	LEARNING EXPERIENCES	KEY INQUIRY QUESTION	LEARNING RESOURCES	ASSESSMENT	REFLECTION
1	1	1.0 Fundamentals of Power Mechanics	1.1 Overview of Power Mechanics	By the end of the lesson, the learner should be able to: Describe power mechanics as a learning area.	The learner is guided to: Use online or print resources to search for information on definition and scope of power mechanics as a learning area ² .	How is power mechanics important in day to day life? ³	2024 Senior School Curriculum Design, Digital devices, Manila paper, Marker pens ⁴ .	Written tests, Question and answer ⁵ .	
	2			By the end of the lesson, the learner should be able to: Identify career opportunities in the power mechanics field.	The learner is guided to: Brainstorm on career opportunities within the power mechanics field (e.g., mechanic, engineer, technician) ⁶ .		Career guidance charts, Digital devices, Power Mechanics Learner's Book.	Checklist, Oral discussion.	
	3			By the end of the lesson, the learner should be able to: Evaluate activities related to power mechanics in the locality.	The learner is guided to: Explore the local community environment to identify activities related to power mechanics (e.g., garages, workshops) ⁷ .		Notebooks, Cameras (if available), Local environment map.	Field report, Observation schedule.	

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	4			By the end of the lesson, the learner should be able to: Acknowledge the importance of power mechanics as a learning area.	The learner is guided to: Brainstorm on the importance of power mechanics as a learning area and discuss findings in class ⁸ .		Charts, Markers, Learner's Book.	Oral presentation, Checklists.	
2	1	1.0 Fundamentals of Power Mechanics	1.1 Overview of Power Mechanics	By the end of the lesson, the learner should be able to: Discuss the scope of power mechanics technology.	The learner is guided to: Use digital devices to search for detailed information on the scope and branches of power mechanics ⁹ .		Digital devices, Internet access.	Written summary, Peer review.	
	2			By the end of the lesson, the learner should be able to: Engage with experts on the importance of power mechanics.	The learner is guided to: Engage a resource person (e.g., a local mechanic) on the importance and reality of power mechanics as a career ¹⁰ .		Resource person, Guest speaker notes.	Question and answer, Reflection notes.	
	3			By the end of the lesson, the learner should be able to: Analyze the role of power mechanics in national development.	The learner is guided to: Discuss how power mechanics contributes to the economic and technological needs of the nation ¹¹¹¹¹¹ .		Curriculum design essence statement, News articles.	Group discussion, Written essay.	

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	4			By the end of the lesson, the learner should be able to: Consolidate understanding of the overview of power mechanics.	The learner is guided to: Create a summary chart or portfolio entry defining power mechanics, careers, and its importance ¹² .		Manila paper, Glue, Pictures from magazines.	Portfolio assessment.	
3	1	1.0 Fundamentals of Power Mechanics	1.1 Overview of Power Mechanics	By the end of the lesson, the learner should be able to: Relate power mechanics to daily life activities.	The learner is guided to: Identify and list items or machines at home that utilize power mechanics principles ¹³ .		Home appliance pictures, Learner's Book.	Oral questions, Checklist.	
	2			By the end of the lesson, the learner should be able to: Review the overview of Power Mechanics.	The learner is guided to: Complete a written test or quiz covering the definition, careers, and importance of power mechanics ¹⁴ .		Assessment sheets.	Written test.	
	3		1.2 Evolution of an automobile	By the end of the lesson, the learner should be able to: Explain the evolution of the automobile globally.	The learner is guided to: Brainstorm and discuss the evolution of the automobile globally from early models to modern ones ¹⁵ .	How has technology advancement affected power mechanics? ¹⁶	Pictures of vintage and modern cars, Digital devices ¹⁷ .	Oral questions, Observation.	

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	4			By the end of the lesson, the learner should be able to: Describe trends in the historical developments of the automobile.	The learner is guided to: Use digital or print resources to search for information on the history and key trends of the automobile ¹⁸ .		History of automobiles books, Internet.	Timeline chart, Written notes.	
4	1	1.0 Fundamentals of Power Mechanics	1.2 Evolution of an automobile	By the end of the lesson, the learner should be able to: Explore the importance of innovation in automobile development.	The learner is guided to: Discuss with peers the role and importance of innovation (e.g., safety, speed, efficiency) in automobile development ¹⁹ .		Video clips on car innovation, Projector.	Group discussion, Peer assessment.	
	2			By the end of the lesson, the learner should be able to: Analyze key historical milestones in automobile history.	The learner is guided to: Create a timeline showing major milestones in the evolution of the automobile ²⁰ .		Charts, Markers, Sticky notes.	Project assessment.	
	3			By the end of the lesson, the learner should be able to: Discuss the impact of the automobile on society.	The learner is guided to: Reflect on and discuss how the evolution of the automobile has changed transportation and society ²¹ .		Social studies resources, Newspapers.	Oral presentation, Reflection journal.	
	4			By the end of the lesson, the	The learner is guided to: Watch		Video clips, TV/Screen.	Observation, Oral questions.	

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				learner should be able to: Appreciate the importance of the evolution of the automobile.	a documentary or video clip on the evolution of cars and discuss appreciation for technological progress ²² .				
5	1	1.0 Fundamentals of Power Mechanics	1.2 Evolution of an automobile	By the end of the lesson, the learner should be able to: Investigate future trends in automobile development.	The learner is guided to: Use online resources to search for information on future trends (e.g., electric cars, autonomous driving) ²³ .		Digital devices, Internet.	Research report.	
	2			By the end of the lesson, the learner should be able to: Compare early and modern automobile features.	The learner is guided to: Use visual aids to compare features of early automobiles vs. modern automobiles ²⁴ .		Comparative charts, Pictures.	Venn diagram, Written comparison.	
	3			By the end of the lesson, the learner should be able to: Present findings on automobile evolution.	The learner is guided to: Present group findings on specific eras or innovations in automobile history ²⁵ .		Presentation tools (PPT or Charts).	Oral presentation rubric.	
	4			By the end of the lesson, the learner should be able to: Review	The learner is guided to: Answer written questions regarding the		Worksheets.	Written test.	

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				the evolution of the automobile.	trends and history of automobiles ²⁶ .				
6	1	1.0 Fundamentals of Power Mechanics	1.3 Power mechanics workshop layout	By the end of the lesson, the learner should be able to: Identify main areas in a power mechanics workshop.	The learner is guided to: Use online resources and print media to search for information on the main areas of a power mechanics workshop (storage, working, etc.) ²⁷ .	Why is a power mechanics workshop layout important? ²⁸	Pictures/Plans of workshops, Digital devices ²⁹ .	Checklist, Identification quiz.	
	2			By the end of the lesson, the learner should be able to: Describe the functions of the storage and working areas.	The learner is guided to: Discuss with peers the specific purposes of the storage and working areas in a workshop ³⁰ .		Learner's Book, Workshop diagrams.	Oral discussion.	
	3			By the end of the lesson, the learner should be able to: Describe the functions of the benches, office, and passage areas.	The learner is guided to: Brainstorm the main areas of a power mechanic workshop including benches, office, and passages ³¹ .		Learner's Book, Whiteboard.	Written description.	
	4			By the end of the lesson, the learner should be able to: Sketch a layout of main areas in a power	The learner is guided to: Make illustrations of standard power mechanics workshop layouts		Drawing paper, Pencils, Rulers.	Sketch assessment.	

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9	1	1.0 Fundamentals of Power Mechanics	1.3 Power mechanics workshop layout	By the end of the lesson, the learner should be able to: Present workshop layout designs.	The learner is guided to: Present their group designs of workshop layouts to the class, explaining their choices ³⁷ .		Student designs.	Peer review, Oral presentation.	
	2			By the end of the lesson, the learner should be able to: Critique workshop layouts.	The learner is guided to: Analyze different workshop layouts and identify strengths and weaknesses ³⁸ .		Sample layouts.	Written critique.	
	3			By the end of the lesson, the learner should be able to: Review workshop layout concepts.	The learner is guided to: Answer questions related to the identification and purpose of workshop areas ³⁹ .		Worksheets.	Written test.	
	4		1.4 General workshop rules and regulations	By the end of the lesson, the learner should be able to: Describe general safety rules and regulations in power mechanics.	The learner is guided to: Brainstorm with peers the general safety rules and regulations in a power mechanics work environment ⁴⁰ .	Why is safety important in power mechanic work environment? ⁴¹	Manila paper, Markers ⁴² .	Observation, Brainstorming list.	
10	1	1.0 Fundamentals of Power Mechanics	1.4 General workshop rules and regulations	By the end of the lesson, the learner should be able to: Interpret workshop safety	The learner is guided to: Use digital and print resources to search for and		Charts of safety signs, Digital devices.	Identification quiz.	

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				signs (Prohibitive).	interpret prohibitive safety signs used in the workshop ⁴³ .				
	2			By the end of the lesson, the learner should be able to: Interpret workshop safety signs (Warning and Mandatory).	The learner is guided to: Watch a video to expound on warning and mandatory safety signs and their meanings ⁴⁴ .		Video clips, Projector.	Oral questions.	
	3			By the end of the lesson, the learner should be able to: Identify Personal Protective Equipment (PPE).	The learner is guided to: Use online resources and print media to search on personal protective equipment (PPE) ⁴⁵ .		Samples of PPEs, Internet.	Checklist.	
	4			By the end of the lesson, the learner should be able to: Practice safe use of Personal Protective Equipment (PPE).	The learner is guided to: Demonstrate the correct use of PPE according to work environment rules ⁴⁶ .		Helmets, Gloves, Goggles, Overalls.	Practical demonstration.	
11	1	1.0 Fundamentals of Power Mechanics	1.4 General workshop rules and regulations	By the end of the lesson, the learner should be able to: Appreciate the need for safety	The learner is guided to: Discuss the consequences of neglecting safety rules and the value of a safe		Safety case studies.	Discussion participation.	

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				in the work environment.	working environment ⁴⁷ .				
	2			By the end of the lesson, the learner should be able to: Develop workshop safety rules.	The learner is guided to: Collaborate to write down a set of general workshop rules and regulations for their own class/workshop ⁴⁸ .		Manila paper, Markers.	Class rules poster.	
	3			By the end of the lesson, the learner should be able to: Create flashcards on safety regulations.	The learner is guided to: Visit a garage (or use resources) to develop flashcards on general workshop safety regulations ⁴⁹ .		Cardboard, Pens, Scissors.	Project assessment.	
	4			By the end of the lesson, the learner should be able to: Role-play safety scenarios.	The learner is guided to: Role-play scenarios involving proper and improper use of safety rules and PPEs ⁵⁰ .		PPEs, Props.	Role-play rubric.	
12	1	1.0 Fundamentals of Power Mechanics	1.4 General workshop rules and regulations	By the end of the lesson, the learner should be able to: Review general workshop rules.	The learner is guided to: Complete a written test on safety rules, signs, and PPEs ⁵¹ .		Assessment sheets.	Written test.	
	2		All Strand 1 Sub-strands	By the end of the lesson, the learner should be able to:	The learner is guided to: Review key concepts from Overview,		Learner's Book, Review notes.	Oral Q&A.	

