Grade 4 Technology Studies - Lesson Plans Term 1

LESSON PLAN 1
SCHOOL: _____
NAME OF TEACHER: _____
DATE: _____
CLASS: GRADE 4
DURATION: 40 MINUTES
TIME: _____
TOTAL NO. OF PUPILS: _____
SUBJECT: TECHNOLOGY STUDIES
TOPIC: 4.1 INTRODUCTION TO TECHNOLOGY STUDIES
SUB-TOPIC: 4.1 INTRODUCTION TO TECHNOLOGY STUDIES
GENERAL COMPETENCE(S): Analytical Thinking, Critical Thinking, Problem Solving
LESSON GOAL: To enable learners to understand the components of Technology Studies and explore various career opportunities in the field.
SPECIFIC COMPETENCES: 4.1.1 Explore career prospects in Technology Studies
RATIONALE: In this lesson, learners will learn about career prospects in Technology Studies using career exploration activities, group discussions, and multimedia presentations. It is expected that they will use this knowledge to make informed decisions about future career paths and understand the importance of technology in various professions. This is the first lesson in the series of three lessons on this topic.
PRIOR KNOWLEDGE: Learners have basic understanding of different professions in their community and have interacted with various forms of technology in their daily lives.
REFERENCES: Technology Studies Syllabus Grade 4-6, CDC 2024; Ministry of Education approved resources
LEARNING ENVIRONMENT

- **Natural environment:** Classroom with adequate lighting and ventilation
- **Artificial environment:** Organized seating arrangement for group discussions
- **Technological environment:** Projector/screen for multimedia presentations, internet access

TEACHING AND LEARNING MATERIALS/RESOURCES:

- Career information materials
- Videos on technology professions
- Internet access
- Chart paper and markers
- Career exploration handouts

EXPECTED STANDARD: Career prospects in Technology Studies explored appropriately
LESSON PROGRESSION:

STAGES	TEACHER'S ROLE	LEARNERS' ROLE	ASSESSMENT CRITERIA
INTRODUCTION (5 minutes)	- Greet learners warmly - Ask learners to name any jobs they know that use technology	- Respond to greetings - Mention jobs like teachers using	- Active participation in discussion - Ability to name at

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STAGES	TEACHER'S ROLE	LEARNERS' ROLE	ASSESSMENT CRITERIA
	- Show images of people working in different technology careers - State the lesson objectives	computers, mechanics, builders - Observe images attentively - Listen to lesson objectives	least 2 technology-related jobs
LESSON DEVELOPMENT	**Activity 1: Components of Technology Studies** (10 minutes) - Explain that Technology Studies has two main components: ICT (Information and Communication Technology) and D&T (Design and Technology) - Use chart to show examples of each component - Facilitate discussion on how these components are different but related	- Listen attentively - Take notes on ICT and D&T - Ask clarifying questions - Share examples of ICT and D&T they have seen	- Understanding of the two components - Ability to differentiate between ICT and D&T
	Activity 2: Exploring Technology Careers (15 minutes) - Present various technology careers: architecture, civil engineering, computer programming, electrical engineering, surveying - Show video clips or images of professionals in these fields - Discuss what each profession involves - Divide class into groups and assign each group a career to research	- Watch videos attentively - Participate in discussion - Work in groups to discuss assigned career - Prepare brief notes on their assigned career	- Engagement with video content - Quality of group discussion - Completeness of career notes
	Activity 3: Entrepreneurial Activities (5 minutes) - Discuss how technology skills can lead to entrepreneurship - Give examples: starting	- Listen to examples - Think creatively about business ideas - Share their entrepreneurial	- Creativity in suggesting business ideas - Understanding link between technology and entrepreneurship

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STAGES	TEACHER'S ROLE	LEARNERS' ROLE	ASSESSMENT CRITERIA
	a computer repair business, designing websites, making furniture - Ask learners to suggest other entrepreneurial ideas	ideas with class	
EXERCISE/ ASSESSMENT (3 minutes)	- Ask each group to share one key fact about their assigned career - Ask individual learners to name one component of Technology Studies	- Present group findings - Answer individual questions - Listen to peers' presentations	- Accuracy of information shared - Clarity of presentation - Participation in sharing
HOMEWORK	- Assign learners to interview one person in their community who uses technology in their job - Ask them to write 5 sentences about what that person does	- Listen to homework instructions - Ask clarifying questions - Note down assignment	- Understanding of homework requirements
CONCLUSION (2 minutes)	- Summarize key points: ICT and D&T components, various technology careers, entrepreneurship opportunities - Praise learners for participation - Preview next lesson	- Listen to summary - Ask final questions - Prepare for next lesson	- Attentiveness during summary

LESSON EVALUATION:

Challenges: .....
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Teacher's response: .....
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LESSON PLAN 2
SCHOOL: _____
NAME OF TEACHER: _____
DATE: _____
CLASS: GRADE 4
DURATION: 40 MINUTES
TIME: _____
TOTAL NO. OF PUPILS: _____
SUBJECT: TECHNOLOGY STUDIES
TOPIC: 4.1 INTRODUCTION TO TECHNOLOGY STUDIES
SUB-TOPIC: 4.1 INTRODUCTION TO TECHNOLOGY STUDIES
GENERAL COMPETENCE(S): Analytical Thinking, Critical Thinking, Problem Solving, Communication
LESSON GOAL: To enable learners to identify and discuss career opportunities in Technology Studies through research and presentation activities.
SPECIFIC COMPETENCES: 4.1.1 Explore career prospects in Technology Studies
RATIONALE: In this lesson, learners will learn about career prospects in Technology Studies using research activities and oral presentations. It is expected that they will use this knowledge to appreciate diverse career pathways and develop presentation skills. This is the second lesson in the series of three lessons on this topic.
PRIOR KNOWLEDGE: Learners understand the components of Technology Studies (ICT and D&T) and have basic knowledge of technology careers from the previous lesson.
REFERENCES: Technology Studies Syllabus Grade 4-6, CDC 2024; Ministry of Education approved resources
LEARNING ENVIRONMENT

- **Natural environment:** Classroom with adequate space for presentations
- **Artificial environment:** Display area for career pathway posters
- **Technological environment:** Internet access for research, projector for presentations

TEACHING AND LEARNING MATERIALS/RESOURCES:

- Career information materials
- Chart paper and markers
- Internet access
- Career exploration handouts
- Sample career pathway posters

EXPECTED STANDARD: Career prospects in Technology Studies explored appropriately
LESSON PROGRESSION:

STAGES	TEACHER'S ROLE	LEARNERS' ROLE	ASSESSMENT CRITERIA
INTRODUCTION (5 minutes)	- Review previous lesson on technology careers - Ask learners to share findings from homework (community interviews) - Introduce today's focus: deeper exploration and presentation of careers	- Share homework findings - Listen to peers' interviews - Connect previous learning to today's lesson	- Quality of homework completion - Ability to recall previous lesson content

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STAGES	TEACHER'S ROLE	LEARNERS' ROLE	ASSESSMENT CRITERIA
LESSON DEVELOPMENT	**Activity 1: Career Research** (15 minutes) - Organize learners into 5 groups - Assign each group a career: architecture, civil engineering, computer programming, electrical engineering, surveying - Provide research guidelines: What do they do? What skills are needed? Where do they work? - Distribute materials and guide research process	- Form groups cooperatively - Conduct research on assigned career - Take notes on key information - Ask teacher for clarification when needed	- Cooperation in groups - Quality of research conducted - Completeness of information gathered
	Activity 2: Creating Career Pathway Posters (12 minutes) - Provide chart paper and markers to each group - Guide learners to create posters showing: career name, job description, required skills, work environment - Encourage creativity in design - Circulate to provide support and feedback	- Design career pathway poster - Organize information creatively - Work collaboratively on poster - Include drawings or diagrams	- Creativity in poster design - Accuracy of information - Collaboration within group - Clarity of presentation
	Activity 3: Oral Presentations (5 minutes)	- Select 2-3 groups to present their posters - Facilitate constructive feedback from class - Ask probing questions to deepen understanding	- Present group poster to class - Explain career pathway clearly - Answer questions from peers and teacher - Listen respectfully to other presentations
EXERCISE/ ASSESSMENT (2 minutes)	- Ask individual learners to name one skill needed for any technology career - Quick oral quiz on careers discussed	- Answer questions individually - Demonstrate understanding of career	- Accuracy of responses - Ability to connect skills to careers

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STAGES	TEACHER'S ROLE	LEARNERS' ROLE	ASSESSMENT CRITERIA
		requirements	
HOMEWORK	- Ask learners to write a short paragraph (5-7 sentences) about which technology career interests them and why	- Listen to homework instructions - Note down assignment	- Understanding of homework requirements
CONCLUSION (1 minute)	- Display all posters around classroom - Commend learners for excellent work - Preview next lesson on safety	- Admire displayed posters - Ask final questions	- Engagement with conclusion

LESSON EVALUATION:

Challenges: .....
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Teacher's response: .....
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LESSON PLAN 3
SCHOOL: _____
NAME OF TEACHER: _____
DATE: _____
CLASS: GRADE 4
DURATION: 40 MINUTES
TIME: _____
TOTAL NO. OF PUPILS: _____
SUBJECT: TECHNOLOGY STUDIES
TOPIC: 4.1 INTRODUCTION TO TECHNOLOGY STUDIES
SUB-TOPIC: 4.1 INTRODUCTION TO TECHNOLOGY STUDIES
GENERAL COMPETENCE(S): Analytical Thinking, Critical Thinking, Communication
LESSON GOAL: To enable learners to synthesize their understanding of technology careers and identify entrepreneurial opportunities in the field.
SPECIFIC COMPETENCES: 4.1.1 Explore career prospects in Technology Studies
RATIONALE: In this lesson, learners will learn about entrepreneurial activities in Technology Studies using group discussions and creative thinking activities. It is expected that they will use this knowledge to develop entrepreneurial mindsets and understand how to apply technology skills in business. This is the third lesson in the series of three lessons on this topic.
PRIOR KNOWLEDGE: Learners have explored various technology careers and understand the components of Technology Studies from previous lessons.
REFERENCES: Technology Studies Syllabus Grade 4-6, CDC 2024; Ministry of Education approved resources
LEARNING ENVIRONMENT

- **Natural environment:** Classroom conducive for discussion
- **Artificial environment:** Seating arranged for group work
- **Technological environment:** Access to videos or images showing technology entrepreneurs

TEACHING AND LEARNING MATERIALS/RESOURCES:

- Videos on young entrepreneurs in technology
- Chart paper and markers
- Examples of technology-based businesses
- Writing materials

EXPECTED STANDARD: Career prospects in Technology Studies explored appropriately
LESSON PROGRESSION:

STAGES	TEACHER'S ROLE	LEARNERS' ROLE	ASSESSMENT CRITERIA
INTRODUCTION (5 minutes)	- Review key careers learned in previous lessons - Ask: "Can you start your own technology business?" - Show brief video of young technology entrepreneur - Introduce concept of entrepreneurship in technology	- Recall technology careers - Share initial thoughts on entrepreneurship - Watch video attentively - Express interest and curiosity	- Engagement with video - Participation in discussion

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STAGES	TEACHER'S ROLE	LEARNERS' ROLE	ASSESSMENT CRITERIA
LESSON DEVELOPMENT	**Activity 1: Identifying Entrepreneurial Activities** (12 minutes) - Brainstorm with class: technology-based businesses (computer repair, website design, phone accessories sales, furniture making, graphic design) - Discuss skills needed for each business - Explain difference between being employed and being an entrepreneur - Facilitate discussion on advantages of entrepreneurship	- Contribute business ideas - Listen to various entrepreneurial options - Ask questions about entrepreneurship - Share knowledge of local technology businesses	- Creativity in suggesting businesses - Understanding of entrepreneurship concept - Quality of questions asked
	Activity 2: Group Business Planning (15 minutes) - Divide class into groups - Ask each group to choose one technology-based business idea - Guide groups to answer: What will you sell/do? Who are your customers? What skills do you need? What materials do you need? - Provide chart paper for groups to write their business ideas	- Work collaboratively in groups - Choose a business idea - Discuss and plan business concept - Write business plan on chart paper - Prepare to present idea	- Collaboration in groups - Feasibility of business idea - Completeness of planning - Creativity and innovation
	Activity 3: Business Idea Presentations (5 minutes) - Invite groups to present business ideas - Ask probing questions about their plans - Provide positive feedback and suggestions - Encourage class to ask questions	- Present business idea confidently - Explain their business plan - Answer questions from teacher and peers - Listen to other groups' ideas	- Clarity of presentation - Confidence in speaking - Ability to defend business idea - Respectful listening
EXERCISE/ ASSESSMENT (2 minutes)	- Quick quiz: Name 2 entrepreneurial activities in technology - Ask: What is one	- Answer questions individually - Demonstrate	- Accuracy of responses - Understanding of

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STAGES	TEACHER'S ROLE	LEARNERS' ROLE	ASSESSMENT CRITERIA
	advantage of being an entrepreneur?	understanding of lesson content	entrepreneurship
HOMEWORK	- Ask learners to draw and label a simple picture showing themselves as technology entrepreneurs (what business, what they're doing)	- Listen to homework instructions - Clarify any doubts - Note down assignment	- Understanding of homework task
CONCLUSION (1 minute)	- Summarize: Technology offers many career and business opportunities - Encourage learners to think creatively about their futures - Preview next topic on safety	- Listen to summary - Express excitement about possibilities - Prepare for next lesson	- Attentiveness during conclusion

LESSON EVALUATION:

Challenges: .....
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Teacher's response: .....
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