**SCHEMES OF WORK**

**SCHOOL: ………………………………………………………………………………………………………………**

**GRADE: GRADE EIGHT**

**LEARNING AREA: PRE-TECHNICAL EDUCATION AND CAREER STUDIES**

**TERM 1 YEAR: 2024**

**TEACHER’S NAME: ……………………………………………….… TSC NO……………………………………**

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| Week | Lesson | Strand | Sub-strand | Specific-Learning outcomes | Learning Experience | Key Inquiry Question(S) | LearningResources  | Assessment Methods | Reflection |
| 1 |  **OPENING AND RECEIVING LEARNERS** |
| 2 | **1-5** | **Safety** | **Safety practices in the working environment** | By the end of the lesson, the learner should be able to:a)identify potential safety threats in a work environment,b)choose appropriate dress code for various tasks in the work environment,c)practice the appropriate safety procedures in the work environment,d)arrange the work environment to enhance safety,e)appreciate the importance of safety in a work environment | In groups, the learner is guided to:* Use charts and pictures to identify various personal safety wear in the work environment
* Prepare a catalogue of different dress codes for various tasks in the work environment
* Watch video clips on safety practices in different work environments
* Role-play appropriate safety behaviour while in the work environment
* Arrange the work environment to enhance safety
* Discuss the importance of safety in the work environment
* Visit any work environment in the school and the community to observe how safety is being practiced
 | Why is safety important in the work environment?How do you observe safety in the work environment? | Workshop Measuring and marking toolsWorkshop attire such as; overcoats, aprons, shoes, gogglesCareer brochures, career magazinesDigital devices such as; computer, laptop, smart phone, tabletsWorkshop rules and regulationsJKF, Pre-technical Education,, Grade 8 Learners Book, Pg.1-2 | Question and AnswerObservation ChecklistWritten test RubricsProject Practical work |  |
| 3 | **1-5** | **Safety** | **Fire safety** | By the end of the lesson, the learner should be able to: a)identify the possible causes of fire in the work environment,b)describe injuries caused by fire in the work environment,c)propose ways of preventing fire outbreak in the work environment,d)relate the type of fire injury and the corresponding First Aid requirements,e)apply basic fire-fighting methods applicable in a work environment,f)appreciate the need for observing fire safety in the work environment | In groups, the learner is guided to:* Watch video clips and brainstorm the different causes of fire in the work environment
* Use digital media and pictures to identify injuries caused by fire in the work environment
* Discuss ways of preventing fire outbreak in a work environment
* Discuss ways of preventing fire with regards to right to safe buildings, right to information regarding safety and right to safety labels such as “exit” in buildings
* Role-play First Aid procedures on management of fire burns and smoke choking in the work environment
* Discuss the need for fire escape in the work environment
* Use charts to sketch various fire escape routes for different work environments
* Watch video clips to observe and record fire-fighting methods in a work
* In pairs, role play different firefighting methods
* Visit different work environments in the locality to observe how fire safety is enhanced
 | Why is fire safety important?How can you deal with a fire outbreak in your locality? | Career brochures, career magazinesDigital devices such as; computer, laptop, smart phone, tabletsWorkshop rules and regulations on fire safetyFirefighting equipmentJKF, Pre-technical Education,, Grade 8 Learners Book, Pg.3-4 | Question and AnswerObservation ChecklistWritten test RubricsProjectPractical work |  |
| 4 | **CAT ONE ASSESSMENT** |
| 5 | **1-5** | **Safety** | **Electrical safety** | By the end of the lesson, the learner should be able to: a)Identify electricity related injuries in the work environment,b)describe causes of electrical injuries in the work environment,c)analyse ways of preventing electricity-related injuries in the work environment,d)relate the type of injury and the corresponding First Aid requirements,e)appreciate the need for electrical safety in the work environment | In groups, the learner is guided to: * Use digital media and pictures to identify and describe electric shocks and burns in the work environment
* Watch video clips and discuss causes of electric shocks and burns at work environments
* Use visual aids to discuss different ways of preventing electric shocks and burns in the work environment
* Use charts to relate the type of injury and the corresponding First Aid requirements
* Role-play First Aid procedures on management of electric shock in the work environment
* Develop a catalogue of safety practices related to electricity in the work environment
* Share and comment on each other’s catalogue of safety practices related to electricity in the work environment
 | Why is electrical safety important?How can you ensure safety from electrical injuries in the work place? | Career brochures, career magazinesDigital devices such as; computer, laptop, smart phone, tabletsWorkshop rules and regulations on electric fire safetyElectric firefighting equipmentJKF, Pre-technical Education,, Grade 8 Learners Book, Pg.5-7 | Question and AnswerObservation ChecklistWritten test RubricsProject Practical work |  |
| 6 | **1-5** | **Materials** | **Composite materials 8** | By the end of the lesson, the learner should be able to:a)identify common composite materials in the locality,b)describe the composition of common composite materials in the locality,c)explain the uses of common composite materials in the locality,d)match careers available in the locality to various uses of composite materials,e)acknowledge the importance of composite materials used in the locality | In groups, the learner is guided to:* Use visual aids and realia to identify materials made of composites (concrete, bricks, manufactured boards, stone, papier-mâché and plastic coated paper among others)
* Collect items made of composite materials in the locality
* Classify the collected composite materials according to their functions
* Discuss, in pairs, the constituent materials of the composites,
* Discuss the importance of seeking information on product use and reading labels on products to ensure compliance to conditions of use,
* Watch video clips and visual aids to observe and note the different uses of composite materials
* Tour the locality and note the various careers related to composite materials
 | How can you identify a composite material?Why are composite materials important? | Concrete, bricks, manufactured boards, stone, papier-mâché and plastic coated paper among othersCareer brochures, career magazinesJKF, Pre-technical Education,, Grade 8 Learners Book, Pg.8-9 | Question and AnswerObservation ChecklistWritten test RubricsProjectPractical work |  |
| 7 |  | **MIDTERM ASSESSMENT** |
| 8 HALFTERM |  |  |  |  |  |  |  |
| 9 | **1-5** | **Materials** | **CERAMIC** | By the end of the lesson, the learner should be able to:a)identify common ceramic materials in the locality,b)describe the basic properties of ceramic materials in the locality,c)explain the uses of common ceramic materials in the locality,d)match careers in the locality to ceramic materials,e) Acknowledge the importance of ceramic materials used in the locality. | In groups, the learner is guided to:* Use visual aids and realia to identify items made of ceramic materials (earthenware, stoneware and porcelain among others),
* Collect items made of ceramic materials in the locality,
* Categorise the collected ceramic materials according to their functions,
* Discuss, in pairs, the composition of ceramic materials,
* Discuss the importance of seeking information on product use and reading labels on products to ensure compliance to conditions of use,
* Watch video clips and visual aids to observe and note the different uses of items made of ceramic materials,
* Tour the locality and note the various careers related to ceramic materials
 | How can you identify an item made of ceramic materials? Why are ceramic materials important? | Earthenware, stoneware and porcelain among othersCareer brochures, career magazinesDigital devices such as; computer, laptop, smart phone, tablets\JKF, Pre-technical Education,, Grade 8 Learners Book, Pg.10-14 | Question and AnswerObservation ChecklistWritten test RubricsProject Practical work |  |
| 10 | **1-5** |  | **Project: Making items from ceramics or composite materials** | By the end of the lesson, the learner should be able to:a)identify a problem in the community which requires a solution using ceramic or composite materials,b)describe how the problem affects the community,c)determine the skills needed to solve the problem in the community,d)make a simple item using ceramic or composite materials to solve the identified problem | In groups, the learner is guided to:* Point out and discuss existing problems in their community that require a solution using skills in the technical field
* Brainstorm on how the identified problem affects the community
* Suggest the technical skills that may be used to solve the identified problem
* Collect sort and use locally available materials to make simple items to solve the identified problem.
 | What are the problems in your community that can be solved using ceramic or composite materials? | Composite materialsCeramics Career brochures, career magazinesDigital devices such as; computer, laptop, smart phone, tabletsJKF, Pre-technical Education,, Grade 8 Learners Book, Pg.15-23 | Question and AnswerObservation ChecklistWritten test RubricsProject Practical work |  |
| 11 | **1-5** |  | **Project: Making items from ceramics or composite materials** | By the end of the lesson, the learner should be able to:a)identify a problem in the community which requires a solution using ceramic or composite materials,b)describe how the problem affects the community,c)determine the skills needed to solve the problem in the community,d)make a simple item using ceramic or composite materials to solve the identified problem | In groups, the learner is guided to:* Point out and discuss existing problems in their community that require a solution using skills in the technical field
* Brainstorm on how the identified problem affects the community
* Suggest the technical skills that may be used to solve the identified problem
* Collect sort and use locally available materials to make simple items to solve the identified problem.
 | What are the problems in your community that can be solved using ceramic or composite materials? | Composite materialsCeramics Career brochures, career magazinesDigital devices such as; computer, laptop, smart phone, tabletsJKF, Pre-technical Education,, Grade 8 Learners Book, Pg.24-30 | Question and AnswerObservation ChecklistWritten test RubricsProject Practical work |  |
| 12 |  | **REVISION** |  |  |  |  |  |  |  |
| 13 | **EXAMINATIONS** |
| 14 | **CLOSING OF SCHOOL**  |