

BST Basic Technology

Making Learning Fun!



**Nigerian Educational Research and Development Council
(NERDC):
UNIFIED SCHEMES OF WORK FOR JUNIOR SECONDARY SCHOOL
(JSS THREE)**

BST(BASIC TECHNOLOGY) JSS 3 TOPIC/THEMES

THEMES:

1. Materials and Processing

- **Processing of Timber**
- Timber production and processing
- Properties of good timber
- Common timber defects
- Timber treatment and preservation methods
- Importance of timber treatment
- Review Questions

2. Processing of Metals

- Metal processing methods
- Advantages and Disadvantages of different processing methods
- Metal alloys; Examples, Properties and Uses
- Review Questions.

3. Processing of Clay, Ceramics and Glass

- Clay: Methods of Processing
- Ceramics: Methods of Processing
- Glass: Methods of Processing
- Advantages and Disadvantages of processing methods of clay, ceramics and glass
- Production and uses of clay, ceramics and glass.
- Review Questions.

4. Processing of Plastics and Rubber

- The difference between Plastics and Rubber
- Plastics: Methods of processing and uses
- Rubber: Methods of processing and uses
- Advantages and Disadvantages of processing methods of plastics and rubber
- Review Questions.

5. Drawing Practice

- **Isometric drawing**
- The principle of isometric projection
- How to do isometric drawing of simple blocks
- Review Questions

6. Oblique Drawing

- The principle of oblique projection
- How to do oblique drawing of simple blocks
- Review Questions

7. Orthographic Projection

- What is Orthographic projection?
- Dimensions
- Review Questions

8. One-Point Perspective Drawing

- What is perspective drawing?
- Principles of one-point perspective
- How to draw a cube in one-point perspective
- Review Questions

9. Scales and Scale Drawing

- What is scale drawing?
- Scales-types
- Review Questions.

10. Drawing of Plans and Blueprints

- Building plans
- Blueprint drawing techniques
- Review Questions.

11. Tools, Machines and Processing

- **Woodwork Projects**
- Production of wooden objects
- Workshop safety rules
- Exhibiting woodwork projects
- Review Questions.

12. Metalwork Projects

- Production of metalwork objects
- Exhibiting metalwork projects
- Review Questions

13. Soldering and Brazing

- Soldering: Tools and Materials
- Applications and Uses
- Brazing: Tools and Materials
- Application and Uses
- Review Questions

14. Machine Motions: Linear

- What is Linear Motion?
- Uses of levers and linkages to produce linear motion
- Uses of slides and slots in mechanical systems
- Review Questions

15. Machine Motions: Rotary

- Rotary Motion
- Principles of application and examples of rotary motion
- Conversion of rotary and linear motion
- Review Questions.

Practice Test.

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