

KENYA CERTIFICATE OF BASIC EDUCATION (K.C.B.E)

MARKING SCHEME

GRADE 10: WOOD TECHNOLOGY – TERM 1 – JANUARY 2026

SECTION A (25 Marks)

Question 1

a) Define Wood Technology. (2 marks)

Wood Technology is the study of methods, processes, tools, and skills used in working with wood to produce functional and aesthetic products.

Alternative definitions:

- ✓ It is the science and art of processing, shaping, and finishing wood for practical use.
- ✓ The application of knowledge, skills, and tools to manufacture wooden items for domestic, industrial, and commercial purposes.

b) State two benefits of studying Wood Technology to a learner. (2 marks)

- i. Develops practical skills useful for employment or entrepreneurship.
- ii. Enhances creativity and problem-solving through designing wooden products.

Additional benefits:

- ✓ Promotes understanding of materials and tools.
- ✓ Encourages self-reliance through making furniture and wooden items.
- ✓ Prepares learners for careers in carpentry, furniture making, and construction.

Question 2

a) State two features they observed in a standard wood workshop. (2 marks)

- i. Well-ventilated space with sufficient lighting.
- ii. Organized workbenches, tool racks, and machinery areas.

Other possible features:

- ✓ Clear safety signage and first aid kit.
- ✓ Separate areas for machines, storage, and finishing.
- ✓ Non-slip flooring and fire safety equipment.

b) Give two reasons why good workshop layout is important. (2 marks)

- i. Ensures safety by preventing accidents and congestion.
- ii. Enhances efficiency by allowing smooth movement of people and materials.

Other reasons:

- ✓ Facilitates proper storage and maintenance of tools.
- ✓ Makes supervision and teaching easier.
- ✓ Reduces wastage of materials.

Question 3

State three career opportunities in the wood industry. (3 marks)

- i. Carpenter / Joiner
- ii. Furniture Maker / Designer
- iii. Cabinet Maker

Additional careers:

- ✓ Wood Machinist
- ✓ Wood Finisher / Polisher
- ✓ Wood Product Entrepreneur
- ✓ Furniture Sales Specialist
- ✓ Workshop Technician

Question 4

a) Give two uses of wood in the community. (2 marks)

- i. Making furniture such as chairs, tables, and beds.
- ii. Construction of houses, doors, windows, and roofs.

Additional uses:

- ✓ Crafting household items like spoons, bowls, and toys.
- ✓ Making school equipment (desks, blackboards).
- ✓ Fuel for cooking and heating.

b) Explain one role of Wood Technology in national development. (2 marks)

Wood Technology contributes to national development by creating employment, providing raw materials for industries, and promoting entrepreneurship, which boosts the economy.

Additional explanations:

- ✓ Supports housing and infrastructure development.
- ✓ Encourages local production, reducing import dependence.
- ✓ Provides products for education, healthcare, and transport sectors.

Question 5

a) State two reasons for observing safety in a wood workshop. (2 marks)

- i. To prevent injuries and accidents.
- ii. To protect tools, machines, and materials from damage.

Other reasons:

- ✓ Ensures a safe learning environment for all learners.
- ✓ Prevents fire hazards.

b) Mention two general safety rules that should be followed in the workshop. (2 marks)

- i. Always wear protective clothing and equipment (gloves, goggles, aprons).
- ii. Keep the workshop clean and organized.

Other rules:

- ✓ Switch off machines when not in use.
- ✓ Do not run in the workshop.
- ✓ Handle tools carefully and store them properly.

Question 6

Classify the tools into categories. (4 marks)

TOOL	CATEGORY
Try square	Measuring / Marking Tool
Jack plane	Planing Tool
Brace	Boring / Drilling Tool
Bench hook	Holding / Supporting Tool

SECTION B (75 Marks)

Question 7

a) Three factors to consider when selecting a workshop site. (6 marks)

- i. Accessibility for learners and transport of materials.
- ii. Safety and distance from hazards (roads, fire-prone areas).
- iii. Adequate space for expansion and proper ventilation.

Additional factors:

- ✓ Proximity to water and electricity supply.
- ✓ Level ground for machinery stability.
- ✓ Availability of natural light.

b) Four key features of a well-designed wood workshop. (8 marks)

- i. Sufficient and safe workbenches for learners.
- ii. Well-organized storage areas for wood and tools.
- iii. Properly arranged tool racks and machinery areas.
- iv. Good lighting and ventilation for safety and comfort.

Additional features:

- Fire safety equipment and clear emergency exits.
- Non-slip and durable flooring.
- Separate finishing and cutting areas to reduce hazards.

c) Sketch layout of a simple wood workshop (6 marks)

Labelled diagram should include:

- ✓ Workbenches
- ✓ Storage area
- ✓ Tool rack
- ✓ Machine area

d) Five rules to maintain safety in the workshop. (5 marks)

- i. Wear personal protective equipment (PPE) at all times.
- ii. Keep tools and machines in good condition.
- iii. Maintain cleanliness and proper lighting.
- iv. Follow proper procedures when handling machines.
- v. Report any accident or faulty equipment immediately.

Question 8

a) Identify workshop tools. (4 marks)

Tool Label	Name
A	Tape Measure
B	Vice/Clamp
C	Spirit Level
D	Try square

b) Four uses of marking tools. (8 marks)

- i. Measuring lengths accurately.
- ii. Marking lines for cutting or drilling.
- iii. Ensuring angles are correct.
- iv. Guiding assembly and joining work.

c) Four cutting tools and one use each. (8 marks)

Cutting Tool	Use
Tenon saw	Cutting straight wood pieces
Coping saw	Cutting curves and shapes
Chisel	Removing waste wood
Hand saw	General cutting of timber

d) Three reasons for sharpening tools regularly. (6 marks)

- i. To make cutting easier and faster.
- ii. To ensure accurate and smooth finishes.
- iii. To reduce the risk of accidents caused by blunt tools.

Additional reasons:

- ✓ Prolongs tool life.
- ✓ Improves productivity.

e) Three boring tools used to create holes. (3 marks)

- i. Brace and bit
- ii. Electric drill / Hand drill
- iii. Auger bit

Question 9

a) Four benefits of Wood Technology in economic development. (8 marks)

- i. Creates employment opportunities in carpentry and furniture industries.
- ii. Encourages entrepreneurship and small-scale businesses.
- iii. Contributes to manufacturing and construction sectors.
- iv. Reduces imports by promoting local production.

b) Five careers related to Wood Technology. (10 marks)

- i. Carpenter
- ii. Cabinet maker
- iii. Furniture designer
- iv. Wood machinist
- v. Workshop supervisor

c) Three reasons why wood is preferred for furniture. (6 marks)

- i. Durable and long-lasting.
- ii. Easy to work with using simple tools.
- iii. Aesthetic appeal and natural beauty.

Additional reasons:

- ✓ Can be polished or painted.
- ✓ Readily available in local markets.

d) Example of holding, clamping, and impelling tools. (3 marks)

- i. Holding tool – Bench hook
- ii. Clamping tool – G-clamp / F-clamp
- iii. Impelling tool – Mallet / Hammer

Question 10

a) Four measuring tools and functions. (8 marks)

- i. Ruler – Measures straight lengths.
- ii. Try square – Checks right angles.
- iii. Tape measure – Measures long distances.
- iv. Caliper – Measures thickness and diameter.

b) Four planing tools and purposes. (8 marks)

- i. Jack plane – Smooths and flattens large surfaces.
- ii. Smoothing plane – Finishes wood surfaces.
- iii. Block plane – Trims small pieces and edges.
- iv. Fore plane – Prepares rough timber for finishing.

c) Three uses of portable stand and bench hook. (6 marks)

Tool	Use
Portable stand	i. Supports wood while cutting
	ii. Holds timber for planing
	iii. Assists in sanding and finishing
Bench hook	i. Holds wood securely during sawing
	ii. Guides straight cuts
	iii. Prevents movement to reduce accidents

d) Three shaping tools used for smoothing or forming wood. (3 marks)

- i. Spokeshave
- ii. Rasp / File
- iii. Chisel

NOTE TO FACILITATORS (TEACHERS):

The marking scheme provided is not exhaustive. Facilitators are advised to use their professional judgment when awarding marks. Any correct, relevant, and scientifically or contextually acceptable answer that demonstrates understanding of the concepts should be credited. Where examples are required, learners may provide other valid examples apart from those listed in the scheme.

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