25SCHOOLS

FREE LEARNING NOTES FOR ZAMBIA

GRADE 4

Mathematics

Measures: Time and Area

Lesson notes for learners · Competence-Based Curriculum

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Measurement helps us describe, compare and understand the world around us. Time and area are the two kinds of measurement you meet most often in daily life. Think about how you use time and area at home and at school.

AFTER THESE NOTES YOU SHOULD BE ABLE TO

- Say why we measure time and area
- Say what time and area tell us
- Name simple units that can be used to measure area

KEY WORDS

Time	What we use to organise activities and find how long events last.
Area	The amount of surface covered by an object or a space.
Nonstandard unit	A simple unit such as a grid square or a tile, used to show area.

1 Time

Time allows us to organise our activities. It helps us find the duration of events, which means how long they last. Smaller units such as seconds and minutes are related to larger ones such as hours and days.

We can also work out the time that passes between two events. This is called elapsed time.

2 Area

Area describes the amount of surface covered by an object or a space. We can show area with nonstandard units such as grids and tiles.

Count the tiles that cover a floor or the squares of a grid that fit inside a shape. The count shows how much surface is covered.

Measure	What it tells us
Time	How long an event lasts
Area	How much surface is covered

Figure 1. Time and area

TRY THIS

Look at a floor, a table or a mat at home. Tell an adult how many tiles or squares you think cover it, then count them.

REMEMBER

- Time helps us organise activities and find how long events last
- Seconds and minutes are small units, hours and days are larger
- Area is the amount of surface covered
- Grids and tiles are simple units for showing area

? Check yourself

1. What does time help us to do.
2. What does area describe.
3. Name two small units of time.
4. Name one simple unit used to show area.
5. Mulenga starts sweeping the classroom at the first bell and stops when the second bell rings. The teacher asks him what time and area have to do with the job. (a) What does time tell about the sweeping. (b) What does area tell about the classroom floor. (c) Name one unit of time.
6. Chanda's father lays tiles on the floor of their new kitchen in Feira. Chanda counts the tiles to see how much of the floor is covered. (a) What is she measuring. (b) What simple unit is she using. (c) What does her count show.

ANSWERS

1. Organise activities and find how long events last.
2. The amount of surface covered by an object or a space.
3. Seconds and minutes.
4. A grid square or a tile.
5. (a) How long it lasted. (b) How much surface is covered. (c) Minutes or hours.
6. (a) Area. (b) A tile. (c) How much surface is covered.

Written by 25Schools to follow the Grade 4 Mathematics syllabus of the Zambian competence-based curriculum. Free for learners to read, download and share. More notes and quizzes at 25schools.com.