



<b><u>FACULTY</u></b>	: Education
<b><u>DEPARTMENT</u></b>	: Childhood Education
<b><u>CAMPUS</u></b>	: APK
<b><u>MODULE</u></b>	: MFP10A2 MATHEMATICS FOR FOUNDATION PHASE
<b><u>SEMESTER</u></b>	: First 2A
<b><u>EXAM</u></b>	: May/June Supplementary Exam 2020

<b><u>DATE</u></b>	:	<b><u>SESSION</u></b>	TAKE HOME
<b><u>ASSESSOR(S)</u></b>	:	PROF K. LUNETA	
<b><u>MODERATOR</u></b>	:	DR. J. MASEKO	
		TAKE HOME	
<b><u>DURATION</u></b>	:	EXAMINATION	<b><u>MARKS</u></b> : 100

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NUMBER OF PAGES: 4 PAGES

INSTRUCTIONS:

1. Answer ALL PARTS OF THE **TWO (2)** QUESTIONS.
  2. Number your answers clearly
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### QUESTION ONE

Write a short mathematics book that will provide the reader definitions and examples of the following mathematics terms in your own words from natural setting (the kitchen, house, garden, forest, village, farm). Provide drawings and pictures in your book. Marks will be lost for definitions directly copied from books or articles.

#### Chapter 1

- i. A line (3)
  - ii. A ray (3)
  - iii. A tangent to a circle (3)
  - iv. Congruent angles (4)
  - v. Equilateral triangle (3)
  - vi. Kite (3)
  - vii. Transversal line (3)
  - viii. Vertically opposite and corresponding angles (4)
  - ix. Lines of symmetry and diagonals of two dimensional shape (4)
- (30)

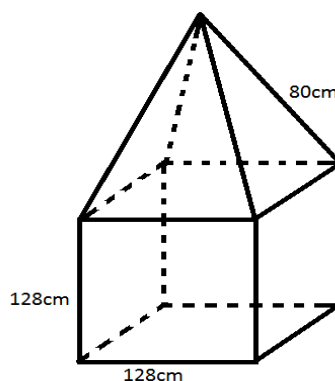
#### Chapter 2

- i. In your book, explain in your own word the meaning of Transformation in mathematics with examples from your environment. (5)
  - ii. Discuss with illustrations informed by your knowledge of transformation the following terms (a) Tessellation (b) Reflection (c) Rotation (d) Translation (15)
- (20) [50]

### QUESTION TWO

The youngest member of your family wants a toy house. Make exactly as the one below from an material using the dimensions provided.

- i. Take a picture with you standing next to the toy house. (10)
- ii. Take a picture showing the surface area of the toy house. (10)
- iii. Calculated the surface area of the toy house. (10)
- iv. Make a 2 minute video showing how you calculate the volume of the toy house (20)



[50]

