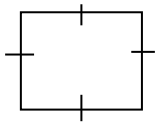
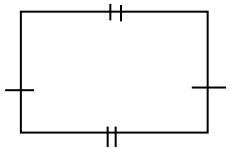
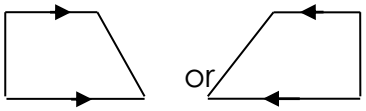
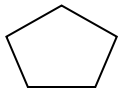
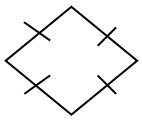
P.3 MATHS LESSON NOTES TERM III

Topic
Subtopic content

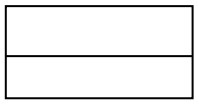
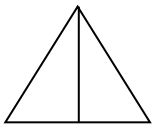
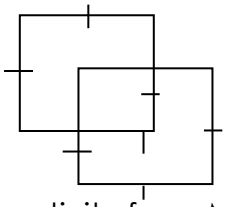
Lesson 1
Geometry
Types of shapes
Definition
Geometry is a branch of mathematics that deals with the study of shapes and their properties.

Types of shapes

Shape	Name	Properties
	Square	- All sides are equal - Has 4 sides
	Rectangle	- Two opposite sides are equal - Has 4 sides
	Trapezium	- Two opposite sides are parallel - Has 4 sides
	Pentagon	- Has 5 sides
	Rhombus	- All sides are equal - Has 4 sides

Evaluation Activity

An activity from Understanding Mathematics BK3 pg63 and MK bk3 p117.

Topic Subtopic content	**Lesson 2** **Geometry** **Counting shapes** **Example** a) Count the rectangles  = 3 rectangles b) Count the triangles  = 3 triangles c) Count the squares  = 3 squares
Evaluation activity	An activity from MK bk3 pg118
Topic Subtopic content	**Lesson 3** **Measures** **Days of the week** **Listing the days of the week** Sunday Monday Tuesday Wednesday Thursday Friday Saturday **Questions** a) What is the first day of the week? b) What is the last day of the week? c) Which day of the week comes after the first day of the week? d) Name the day of the week that comes before a day Muslims go for prayers?
Evaluation Activity	**An activity from MK Bk 3 Pg 126**
Topic Subtopic content	**Lesson 4** **Measures** **Changing weeks to days** **Examples**

Evaluation activity

How many days are there in 2 weeks?
1 week has 7 days
2 weeks have (2 x 7)
= 14 days
An activity from MK bk3 pg126

Topic
Subtopic
content

Lesson 5
Measures
Changing days to weeks
Example
Convert 21 days to weeks
Solution 7 days make a week

$$21 \text{ days make } \frac{21}{7} = 3 \text{ weeks}$$

Evaluation

An activity from teachers' own collection

Topic
Subtopic
content

Lesson 6
Measures
Completing tables about days and weeks
Examples

Weeks	1	2	3	4			7
Days	7	14			35	42	

1 x 7 2 x 7 35÷ 7
1 - 7 days 14 **5**

Evaluation

An activity from MK bk3 pg126

Topic
Subtopic
content

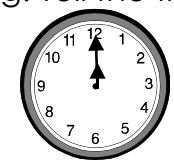
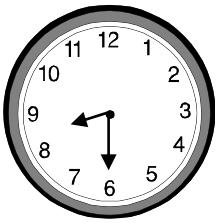
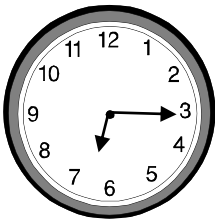
Lesson 26
Measures
Months of the year with their days
Listing months of the year

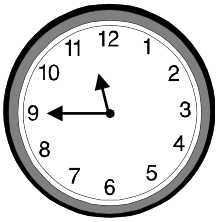
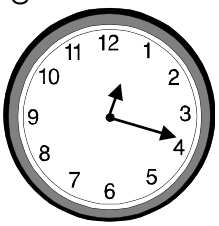
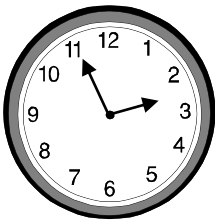
1. January - 31
2. February - 28/29
3. March - 31
4. April - 30
5. May - 31
6. June - 30
7. July - 31
8. August - 31
9. September - 30
10. October - 31
11. November - 30
12. December - 31

Evaluation

Formulated questions by the teacher
Mk bk3 pg138

Topic Subtopic content **Evaluation**	**Lesson 9** **Measures** **Changing years to months** **Example** There are 12 months in a year. How many months are in 2 years? 1 year has 12 months 2 years have (2 x 12) = 24 months Mk bk3 pg139
Topic Subtopic content **Evaluation**	**Lesson 28** **Measures** **Changing months to years** **Example** How many years are in 36 months? (use repeated subtraction) 3 6 -1 2 (1 year) 2 4 -1 2 (1 year) 1 2 -1 2 (1 year) 0 0 ∴ 3 years are in 36 months. An activity from teacher's own collection
Topic Subtopic content **Evaluation**	**Lesson 10** **Measures** **Completing tables about months and years** **Example** Complete the table below **Years** | 1 | 2 | 3 | 4 | …….. **Months** | 12 | 24 | 36 | ……. | 60 2 x 12 36 ÷ 12 = 24 months 3 years An activity from MK bk3 pg139
Topic Subtopic content	**Lesson 11** **Measures** **How old: (Finding one's age)** **Example** Mike was born in 1989. How old was he in 1997? 1997

Evaluation	- 1989 0008 years Mike was 8 years old An activity from MK bk3 pg140
Topic Subtopic content **Evaluation**	**Lesson 13** Measures Telling time Telling time in hours Eg. Tell the time  It is 12 o'clock 01 12:00 MK bk 3 pg 127
Topic Subtopic content **Evaluation**	**Lesson 14** Telling time Telling time in a half past e.g. tell the time  It is a half 8 o'clock or 8:30 MK bk 3 pg 129
Topic Subtopic content **Evaluation**	**Lesson 15** Telling time Telling time using a quarter past e.g. tell the time  it is a quarter past 7 o'clock or 7:15 MK bk 3 pg 128-129

Topic Subtopic content **Evaluation**	**Lesson 16** Telling time Telling time using a quarter to e.g. tell the time  it is a quarter to 12 o'clock or 11?45 MK bk 3 pg 132
Topic Subtopic content **Evaluation**	**Lesson 17** Measures Telling time Telling time in minutes past e.g. it is 20 minutes past 12 o'clock  MK 2000 bk 3 pg 133-134
Topic Subtopic content **Evaluation**	**Lesson 18** Measures Telling time Telling time in minutes to e.g. it is 5 minutes to 3 o'clock or 2:55  MK 2000 MTC bk 3 pg 136-137
Topic Subtopic content	**Lesson 19** Telling time Word problem e.g change 2 hours to minutes 2 hours = minutes 1hour = 60 minutes 1 hour = 60minutes or 2 hours = 60 x 2 = 120 minutes 2 hours = 60 x 2

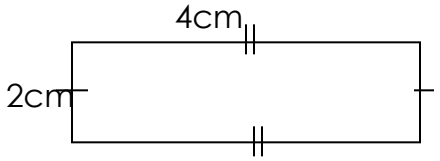
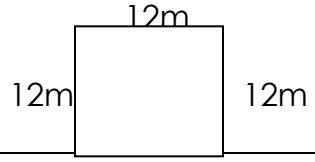
	60 X2 120
Evaluation	Convert 3 hours to minutes Change 4 hours to minutes How many minutes are there in 5 hours?
Topic Subtopic content	**Lesson 20** Telling time Word problem Changing from minutes to hours e.g. convert 120 minutes to hours 120 minutes = hours 60 minutes = 1 hour 120 minutes = 120 ÷ 60 120 = 2hours 60
Evaluation	Change 360 minutes to hours Convert 120 minutes to hours
Topic Subtopic content	**Lesson 21** Measures Drawing and showing on a clock face Represent e.g. a half past 3 o'clock a quarter to 8 o'clock a quarter past 2 o'clock
Evaluation	MK 2000 MTC bk 3 pg 137
Topic Subtopic content	**Lesson 22** **Measures** **Money** **Recognition of money** Notes: 1000 note; 50,000note; 5000 note; 10000 note; 20000 note Coins: 50 coin; 100 coins; 200 coins; 500 coins Addition of money (1) Shs 200 Shs 50 (2) shs 1000 + shs 500 + shs 100 shs 1000

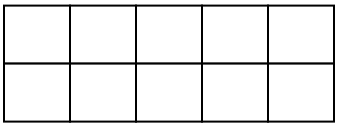
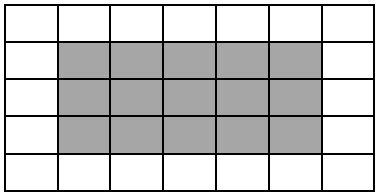
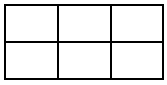
<table>
<tr><td></td><td>Shs 250 shs 500
+ shs 100
Shs 1600</td></tr>
<tr><td>Evaluation</td><td>An activity from MK bk3 pg176 and 178</td></tr>
<tr><td>Topic
Subtopic
content</td><td>Lesson 23
Measures
Money
Addition of money (word problems)
Examples
I had 100 shillings. My father gave me 50 shillings more. How much money do I have altogether?
I had 100 shillings
Father gave me + 50 shillings
I have 150 shillings</td></tr>
<tr><td>Evaluation</td><td>Mk bk3 pg178</td></tr>
<tr><td>Topic
Subtopic
content</td><td>Lesson 24
Measures
Money
Subtraction of money (word problems)
Example
Mukooza had shs 350. He gave away shs 100. How much money did he remain with?
Shs 350
- shs 100
Shs 250</td></tr>
<tr><td>Evaluation</td><td>Mk bk3 pg180</td></tr>
<tr><td>Topic
Subtopic
content</td><td>Lesson 25
Measures
Money
Shopping
Example
The table below shows the price list in Mrs. Yiga's shop. Use it to answer the questions that follow
<table>
<tr><th>Item</th><th>Price</th></tr>
<tr><td>A book</td><td>shs 100</td></tr>
<tr><td>A pencil</td><td>shs 250</td></tr>
</table></td></tr>
</table>

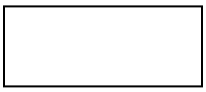
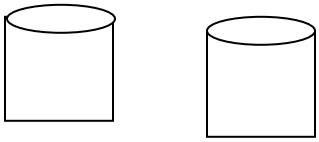
	<table><tr><td>An egg</td><td>shs 300</td></tr><tr><td>A bar of soap</td><td>shs 500</td></tr><tr><td>A kg of rice</td><td>shs 800</td></tr><tr><td>A pen</td><td>shs 200</td></tr></table> **Questions** a) How much does a pencil cost? b) What is the cost of an egg and a pen? Mk bk3 pg181
Evaluation	
Topic Subtopic content	**Lesson 26** **Topic: Measures** **Subtopic: Money** **Content: Shopping with pictorial** Example A bag  Shs 500 an apple  shs 800 A pencil  shs 100 a book  shs 300 a) What is the cost of 2 pencils? Shs 100 x 2 = shs 200 b) What is the cost of 3 bags and 2 books? Bags = 3 x 500 = shs 1500 Books = 2 x 300 = + shs 600 Shs 2100
Evaluation	From understanding mathematics bk 3 pg 73.
Topic Subtopic content	**Lesson 27** **Measures** **Money** **Division of money** Examples Divide shs 1200 by 3 0400 3 | 1200 0 x 3 = 0 12 4 x 3 = 12 00 ∴ shs 1200 ÷ 3 = shs 400

Evaluation	MK bk3 pg187
 Topic Subtopic content **Evaluation**	**Lesson 28** **Measures** **Money** **Word problems involving division of money** Example Mr. Kasule had shs 800. He shared it equally between his two children. How much did each child get? 400 2) 800 4 x2 = 8 000 2 x 0 = 00 00 $\therefore$ Each child gets shs 400 Mk bk3 og187
 Topic Subtopic Content Evaluation	**Lesson 29** Measures Length Units for length e.g centimeter , metres, decimeter, hectometers , kilograms changing from metres to centimeter e.g. convert 3 metres to centimeters 3m = cm 1m = 100cm 3m = 100 100 +100 300cm Activity in MK 2000 Mtc bk 3

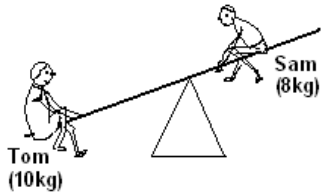
	Lesson 30
Topic	Measures
Subtopic	Changing from centimeters to metre
Content	Example Change 200cm to metres 100cm = 1 m 200cm = $\left(\frac{200cm}{100}\right)$ = 2metres
Evaluation	Activity MK bk 3
	Lesson 31
Topic	Measures
Subtopic	Addition of metres and centimeters
Content	Examples Add; M cm 2 45 + 6 36 8 81
Evaluation	Activity in Mk 2000 Mtc bk 3 pg 14
	Lesson 32
Topic	Measures
Subtopic	Word problem involving addition of metres and centimeters
Content	Example; A shopkeeper has 2m 38cm of nylon cloth and 6m 30cm of cotton cloth. What is the total length of the pieces of cloth. M cm 4 38 + 6 30 10 68
Evaluation	Activity in MK 2000 bk 3 pg 148
	Lesson 33
Topic	Measures
Subtopic	Subtraction of metres and centimeters
Content	Example M cm 6 50 -4 30 220
Evaluation	Activity Mk 2000 MTC bk 3 pg 149

	Lesson 34
Topic	Measures
Subtopic	Word problem involving subtraction of metres and centimeters
Content	Example Musa had a string of 8m 47cm. he cut off 2m 16cm. what length of the string was left? M cm 8 47 -216 631
Evaluation	Activity in Mk bk 3 pg 150
	Lesson 35
Topic	Measures
Subtopic	Finding perimeters
Content	Perimeter Definition: perimeter is the total distance around any give figure Example Find the perimeter of the figure below  P = s+s+s+s
Evaluation	4cm +2cm+4cm+2cm 6cm +6cm =12cm Activity in MK bk 3
	Lesson 36
Topic	Measures
Subtopic	Word problems involving finding perimeter of a shape
Content	Example A square garden measures 12m each side. Find its perimeter 

	12m P= s+s+s+s = 12m+12m+12m+12m = 24m + 24m = 24m + 24m 48m
Evaluation	Activity in MK MTC bk 3
	Lesson 37
Topic	Measures
Subtopic	Finding area
Content	Example ; counting squares  Area = number of square units 12sq units.
Evaluation	Activity in MK MTC bk 3 pg 152
	Lesson 38
Topic	Measures
Subtopic	Finding area of the shaded part
Content	Example; area = number of sq units = 15 sq. units 
Evaluation	Activity in MK MTC bk 3 pg 155
	Lesson 39
Topic	Measures
Subtopic	Finding the area by multiplying
Content	Example; area = number of sq. units = (3 squares across)x(2sqaures down)  = 3 x 2 = 6 squares units or 6 sq. units Example 2; area = length x width

	8cm  3cm 8cm x 3cm 24cm^2 or 24 sq. centimeters
Evaluation	Activity in MK bk 3 pg 155-156
	Lesson 40
Topic	Measures
Subtopic	Word problem involving finding area
Content	Example Mary's note book is 4cm long and 3cm wide Find its area 4cm  3cm area = L x W = 4cm x 3cm = 12cm^2
Evaluation	Activity in Mk MTC bk 3 pg 157-158
	Lesson 41
Topic	Capacity
Subtopic	Energy in our sub county
Content	Example: How many ½ litres make a litre.  ½ litre + ½ litre = 1 litre Therefore, 1 litre = 2 halves New MK bk 3 pg 161
Evaluation	
	Lesson 42
Topic	Capacity
Subtopic	Changing litres to centilitres
Content	1 litre = 100cl 3 litres = (3x100)cl 3litres = 300cl
Evaluation	Teachers collection
	Lesson 43
Topic	Capacity
Subtopic	Changing centiliters to litres
Content	Example: How many litres are in 500cl?

	1 litre = 100cl ? = 500cl $\frac{500cl}{100cl}$ litres = 5 litres
Evaluation	Teacher's collection
	Lesson 44
Topic	Capacity
Subtopic	Adding litres and centiliters
Content	Example; Add; 1 5 0 litres + 3 5 0 litres 5 0 0 litres Example 2 Add; Litres centiliters 3 25 +2 60 5 85
Evaluation	Teachers' collection
	Lesson 45
Topic	Capacity
Subtopic	Word problem involving addition of litres.
Content	Mr. Lubega made 24 litres of juice and Kato made 78 litres. How much juice did the two men make? 2 4 litres +7 8 litres 10 2 litres Therefore, they made 102 litres of juice
Evaluation	New MK nk 3 pg 163
	Lesson 46
Topic	Capacity
Subtopic	Subtraction of ltires and centiliters
Content	Example: 2 4 7 litres - 2 5 litres 2 2 2 litres
Evaluation	

	Lesson 47
Topic	Measures
Subtopic	Weight
Content	Definition : weight is the lightness or heaviness of an object. Units measuring weight Examples Kilograms Grams Hectogram Changing kilogram to grams Example Change 3kg to grams 1kg = 1000g 1kg = 1000g 3kg = 1000g 3kg = 1000g 1000g x 3 1000g3000g + 3000g
Evaluation	Activity in MK MTc bk 4
	Lesson 48
Topic	Measures
Subtopic	Weight
Content	Changing from grams to kilograms Example Change 2000g to kilograms 1000g = 1kg
Evaluation	2000g = $\left(\frac{2000g}{1000g}\right)$ kg = 2kg
	Lesson 49
Topic	Measures
Subtopic	Weight
Content	Comparing weight Who is heavier? Example 
Evaluation	Activity in MK MTC bk 3 pg 168
	Lesson 50
Topic	Measures

Subtopic Content Evaluation	Weight Addition of kilograms and grams Example Kg g 4 250 +2 300 6 550 Activity in MK bk 3 pg 171
 Topic Subtopic Content Evaluation	**Lesson 51** Measures Weight Word problem involving addition of kilograms and grams Example Kato weighs 17kg 280 g. his sister weighs 20kg 250g. find their total weight. Kg g 17 280 +20 250 37 530 Activity in MK bk 3 pg 172
 Topic Subtopic Content Evaluation	**Lesson 52** Measures Weight Subtraction of kilograms and grams Example Kg g 9 650 -7 200 2 450 Activity in Mk bk 3 pg 173
 Topic Subtopic Content	**Lesson 53** Measures Weight Word problems involving subtraction of kilograms and grams Example Akot had 5kg 750g of salt. She gave 3kg 250g to her friend. How much salt was left? Kg g 5 750 -3 250

Evaluation	2 500 Activity in Mk bk 3 pg 174
Topic Subtopic Content Evaluation	**Lesson 54** Algebra Finding missing numbers Example □ + 3 = 8 □ + 3 – 3 = 8 – 3 □ + 0 = 5 = 5 Activity Mk bk 3 pg 192
Topic Subtopic Content Evaluation	**Lesson 55** Algebra Word problems involving algebra Example Nakito had some books. She was given 12 more books. Now she has 20 books. How many books had Nakito had at first? □ + 12= 20 + 12 – 12 = 20 – 12 + 0 = 8 = 8 Nakito had 8 books first Activity MK bk 3 pg 192
Topic Subtopic Content Evaluation	**Lesson 56** Algebra Finding unknowns involving subtraction Example M – 5 = 3 M – 5+5= 3+5 M – 0 = 8 M = 8 Activity in Mk mtc bk 3 p 194
Topic Subtopic Content	**Lesson 57** Algebra Word problems involving subtraction of unknowns Example Father had some mangoes. He gave 5 mangoes to his son. He

□

□

	remained with 7 mangoes. How many mangoes did he have at first? □ -5 = 7 - 5+5= 7+5 - 0 = 12 = 12 He had 12 mangoes at first.
Evaluation	Activity in Mk mtc bk 3 pg 194
	Lesson 58
Topic	Algebra
Subtopic	Finding missing numbers in multiplication
Content	Example X 2 = 10 □ x 2÷2= 10÷2 □ x 1 = 5 = 5
Evaluation	Activity in MK bk 3 pg 196
	Lesson 59
Topic	Algebra
Subtopic	Finding missing numbers involving division
Content	Example 6 ÷ □ =3 □ = 6÷3 □ = 2
Evaluation	Activity in Mk mtc bk 3 pg 197
	Lesson 60
Topic	Algebra
Subtopic	Word problems involving finding missing numbers with division
Content	Example Auma had some bananas. He shared them among 6 boys. Each boy got 8 bananas. How many bananas had Auma had before? □ ÷ 6 = 8 □ =8x6 □ =48 Auma had 48 bananas before
Evaluation	Activity in Mk mtc bk 3 pg 198

Topic Subtopic Content Evaluation	 **Lesson 61** Algebra Collecting like terms Example Collect like terms 3 cups + 2 books + 4 cups + 3 books 3cups + 4 cups + 2 books + 3 books 7 cups + 5 books Activity in MK mtc bk 4