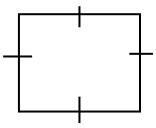
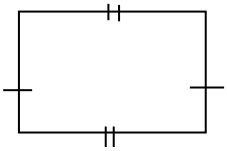
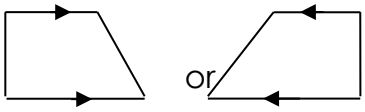
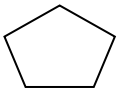
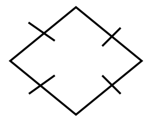
P.3 MATHS LESSON NOTES TERM III

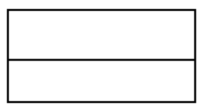
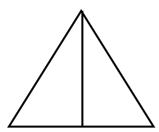
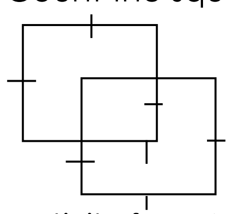
Topic
Subtopic
content

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

<table>
<tr>
<td>Evaluation Activity</td>
<td>
<table>
<tr><td>  </td><td>Rhombus</td><td>- All sides are equal
- Has 4 sides</td></tr>
</table>
An activity from Understanding Mathematics BK3 pg63 and MK bk3 p117.
</td>
</tr>
<tr>
<td>Topic
Subtopic
content

Evaluation activity</td>
<td>Lesson 2
Geometry
Counting shapes
Example
a) Count the rectangles
  = 3 rectangles
b) Count the triangles
  = 3 triangles
c) Count the squares
  = 3 squares
An activity from MK bk3 pg118</td>
</tr>
<tr>
<td>Topic
Subtopic
content</td>
<td>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?</td>
</tr>
</table>

<table>
<tr><td>Evaluation Activity</td><td>d) Name the day of the week that comes before a day Muslims go for prayers?
An activity from MK Bk 3 Pg 126</td></tr>
<tr><td>Topic
Subtopic
content

Evaluation activity</td><td>Lesson 4
Measures
Changing weeks to days
Examples
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</td></tr>
<tr><td>Topic
Subtopic
content

Evaluation</td><td>Lesson 5
Measures
Changing days to weeks
Example
Convert 21 days to weeks
Solution 7 days make a week
21 days make $\frac{21}{7}$ = 3 weeks
An activity from teachers' own collection</td></tr>
<tr><td>Topic
Subtopic
content

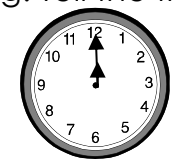
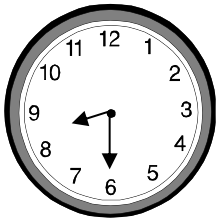
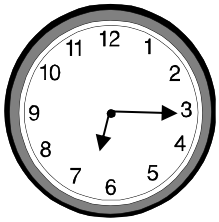
Evaluation</td><td>Lesson 6
Measures
Completing tables about days and weeks
Examples
<table>
<tr><td>Weeks</td><td>1</td><td>2</td><td>3</td><td>4</td><td></td><td></td><td>7</td></tr>
<tr><td>Days</td><td>7</td><td>14</td><td></td><td></td><td>35</td><td>42</td><td></td></tr>
</table>
1 x 7 2 x 7 35÷ 7
1 - 7 days 14 5
An activity from MK bk3 pg126</td></tr>
<tr><td>Topic
Subtopic
content</td><td>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</td></tr>
</table>

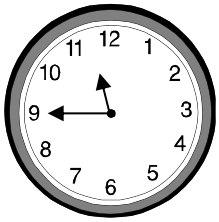
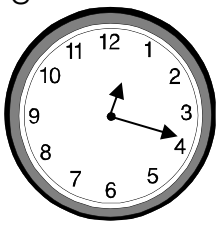
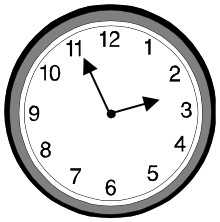
	9. September - 30 10. October - 31 11. November - 30 12. December - 31
Evaluation	Formulated questions by the teacher Mk bk3 pg138
Topic Subtopic content	**Lesson 9** **Measures** **Changing years to months** **Example** There are 12 months in a year. How many months are in 2 years? 1 year has 12 months 2 years have (2 x 12) = 24 months
Evaluation	Mk bk3 pg139
Topic Subtopic content	**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.
Evaluation	An activity from teacher's own collection
Topic Subtopic content	**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
= 24 months

36 ÷ 12
3 years

Evaluation	An activity from MK bk3 pg139
Topic Subtopic content **Evaluation**	**Lesson 11** **Measures** **How old: (Finding one's age)** **Example** Mike was born in 1989. How old was he in 1997? 1997 -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 **Evaluation**	**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 Convert 3 hours to minutes Change 4 hours to minutes How many minutes are there in 5 hours?
Topic Subtopic content **Evaluation**	**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 Change 360 minutes to hours Convert 120 minutes to hours
Topic Subtopic content **Evaluation**	**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 MK 2000 MTC bk 3 pg 137
Topic Subtopic content	**Lesson 22** **Measures** **Money** **Recognition of money** Notes Coins 1000 note 50 coin 50,000 note 100 coins 5000 note 200 coins

	10000 note 500 coins 20000 note Addition of money (1) (2) Shs 200 shs 1000 + shs 500 + shs 100 Shs 50 shs 1000 Shs 250 shs 500 + shs 100 Shs 1600
Evaluation	An activity from MK bk3 pg176 and 178
Topic Subtopic content	**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
Evaluation	Mk bk3 pg178
Topic Subtopic content	**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
Evaluation	Mk bk3 pg180
Topic Subtopic content	**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

Item	**Price**
A book	shs 100
A pencil	shs 250
An egg	shs 300
A bar of soap	shs 500
A kg of rice	shs 800
A pen	shs 200

Questions

a) How much does a pencil cost?
b) What is the cost of an egg and a pen?

Evaluation

Mk bk3 pg181

Lesson 26

Topic
Subtopic
content

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.

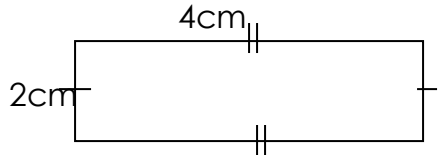
Lesson 27

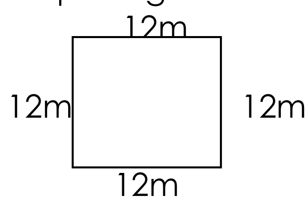
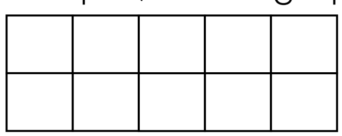
Topic
Subtopic
content

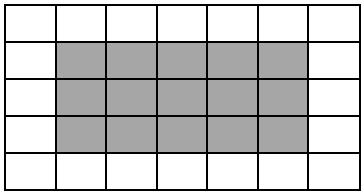
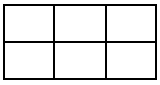
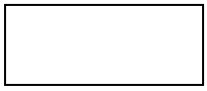
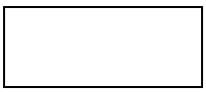
Measures
Money
Division of money
Examples

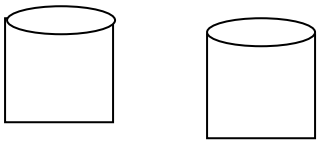
Evaluation	Divide shs 1200 by 3 0400 3⌊ 1200 0 x 3 = 0 12 4 x 3 = 12 00 ∴ shs 1200 ÷ 3 = shs 400 MK bk3 pg187
Topic Subtopic content **Evaluation**	**Lesson 28** **Measures** **Money** **Word problems involving division of money** Example Mr. Kasule had shs 800. He shared it equally between his two children. How much did each child get? 400 2⌊ 800 4 x2 = 8 000 2 x 0 = 00 00 ∴ Each child gets shs 400 Mk bk3 og187
Topic Subtopic Content	**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
Evaluation	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 = $\frac{200cm}{100}$ = 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

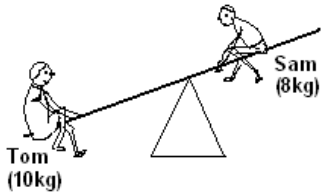
	10 68
Evaluation	Activity in MK 2000 bk 3 pg 148
	Lesson 33
Topic	Measures
Subtopic	Subtraction of metres and centimeters
Content	Example M cm 6 50 - 4 30 2 20
Evaluation	Activity Mk 2000 MTC bk 3 pg 149
	Lesson 34
Topic	Measures
Subtopic	Word problem involving subtraction of metres and centimeters
Content	Example Musa had a string of 8m 47cm. he cut off 2m 16cm. what length of the string was left? M cm 8 47 - 2 16 6 31
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
 Topic Subtopic Content Evaluation	**Lesson 36** Measures Word problems involving finding perimeter of a shape Example A square garden measures 12m each side. Find its perimeter  P= s+s+s+s = 12m+12m+12m+12m = 24m + 24m = 24m + 24m 48m Activity in MK MTC bk 3
 Topic Subtopic Content Evaluation	**Lesson 37** Measures Finding area Example ; counting squares  Area = number of square units 12sq units. Activity in MK MTC bk 3 pg 152
 Topic Subtopic Content	**Lesson 38** Measures Finding area of the shaded part Example; area = number of sq units

Evaluation	= 15 sq. units  Activity in MK MTC bk 3 pg 155
Topic Subtopic Content Evaluation	**Lesson 39** Measures Finding the area by multiplying 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 8cm x 3cm  $24cm^2$ or 24 sq. centimeters 3cm Activity in MK bk 3 pg 155-156
Topic Subtopic Content Evaluation	**Lesson 40** Measures Word problem involving finding area Example Mary's note book is 4cm long and 3cm wide Find its area 4cm area = L x W  = 4cm x 3cm 3cm = $12cm^2$ Activity in Mk MTC bk 3 pg 157-158
Topic Subtopic Content	**Lesson 41** Capacity Energy in our sub county

Evaluation	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
Topic Subtopic Content Evaluation	**Lesson 42** Capacity Changing litres to centilitres 1 litre = 100cl 3 litres = (3x100)cl 3litres = 300cl Teachers collection
Topic Subtopic Content Evaluation	**Lesson 43** Capacity Changing centiliters to litres Example: How many litres are in 500cl? 1 litre = 100cl ? = 500cl $\frac{500cl}{100cl}$ litres = 5 litres Teacher's collection
Topic Subtopic Content	**Lesson 44** Capacity Adding litres and centiliters 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
Topic Subtopic Content Evaluation	**Lesson 45** Capacity Word problem involving addition of litres. 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 New MK nk 3 pg 163
Topic Subtopic Content Evaluation	**Lesson 46** Capacity Subtraction of ltires and centiliters Example: 2 4 7 litres - 2 5 litres 2 2 2 litres
Topic Subtopic Content Evaluation	**Lesson 47** Measures Weight 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 1000g 3000g + 3000g Activity in MK MTc bk 4
Topic	**Lesson 48** Measures

Subtopic Content Evaluation	Weight Changing from grams to kilograms Example Change 2000g to kilograms 1000g = 1kg 2000g = $\left(\frac{2000g}{1000g}\right)$ kg = 2kg
 Topic Subtopic Content Evaluation	**Lesson 49** Measures Weight Comparing weight Who is heavier? Example  Activity in MK MTC bk 3 pg 168
 Topic Subtopic Content Evaluation	**Lesson 50** Measures 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	**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

Evaluation	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 Evaluation	**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 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	**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?

Evaluation	□ + 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 Evaluation	**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. Activity in Mk mtc bk 3 pg 194
Topic Subtopic Content	**Lesson 58** Algebra Finding missing numbers in multiplication Example □ X 2 = 10 □ x 2÷2= 10÷2

□

Evaluation	x 1 = 5 = 5 Activity in MK bk 3 pg 196
Topic Subtopic Content Evaluation	**Lesson 59** Algebra Finding missing numbers involving division Example 6 ÷ ☐ =3 ☐ = 6÷3 ☐ = 2 Activity in Mk mtc bk 3 pg 197
Topic Subtopic Content Evaluation	**Lesson 60** Algebra Word problems involving finding missing numbers with division 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 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