

DAWOOD PUBLIC SCHOOL
Course Outline for the year 2011-2012
Mathematics
Class-V

Books:

Lu jitan, New Syllabus Primary Mathematics 5 along with practice books 5a& 5b, Singapore; Oxford University Press

Syllabus Aims and Assessment:

We emphasis on quality education instead of quantity of syllabi. So this year we designed our syllabi in this way that concepts of children should be cleared. We found this year some more things according to our syllabus to fulfill the requirement.

Aims

The aims are to enable students to:

- Develop and apply basic numeracy skills
- Develop skills in the number bonds, four operations and measurements.
- Tell the time and calculate time intervals
- Using money and budgeting
- Using common units of length, weight and volume
- Develop understanding of shapes.
- Apply mathematics in everyday situations and develop an understanding of the part which mathematics plays in the world around them;
- Appreciate patterns and relationships in mathematics;
- Produce and appreciate imaginative and creative work arising from mathematical ideas
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- Produce and appreciate imaginative and creative work arising from mathematical ideas;
- All skills are developed in the context of daily living.
- Undertaking the group of units as a coherent whole offers a number of benefits:
- To deliver an integrated, holistic learning experience.
- Balance and breadth of the candidate’s experiences and learning will be promoted.
- Practical activity may be integrated.
- Skills and abilities developed through practical activity support learning as a whole.

Assessment objectives

The abilities to be assessed in the Mathematics examination cover a single assessment objective, technique with application. The examination will test the ability of students to:

- Judge their mathematical knowledge and oral, written and practical skills in a way which encourages confidence and provides satisfaction and enjoyment;
- Examine their Read mathematics, and write and talk about the subject in a variety of ways;
- Carry out calculations and understand the significance of the results obtained;
- Organize, interpret and present information accurately in written and diagrammatic forms;
- Perform calculations by suitable methods;
- Analyze a problem, select a suitable strategy and apply an appropriate technique to obtain its solution;
- Apply combinations of mathematical skills and techniques in problem solving;
- Set out mathematical work, including the solution of problems, in a logical and clear form using appropriate symbols and terminology.
- Understand systems of measurement in everyday use and make use of them in the solution of problems;
- Estimate, approximate and work to degrees of accuracy appropriate to the context;
- Use mathematical and other instruments to measure and to draw to an acceptable degree of accuracy;

Monthly Syllabus:

August 2011	<ul style="list-style-type: none"> ● Whole Numbers ● Four operations ● Table of 16
September 2011	<ul style="list-style-type: none"> ● Fractions ● Angles (Supplementary/ Comp.) ● Table of 17
October 2011	<ul style="list-style-type: none"> ● Ratio ● Angles (St. line, at a point, Vertically Opposite) ● Algebra (Addition, Subtraction, multiplication and Division)) ● Table of 18
November 2011	●REVISION FOR MID TERM EXAMS
December 2011	●MID TERM EXAMS
January 2012	<ul style="list-style-type: none"> ● Decimals ● Percentage ● Triangle Construction ● Table of 19

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February 2012	<ul style="list-style-type: none"> ● Average ● Triangle(Area and unknown angles) ● Volume ● Table of 20
March 2012	<ul style="list-style-type: none"> ● 4 – Sided figures ● Removal of Brackets
April 2012	● REVISION FOR FINAL TERM EXAMS
May 2012	●FINAL TERM EXAMS

Syllabus Content:

Theme or Topic	Subject Content
<ul style="list-style-type: none"> ● Whole Numbers (1,2,3) Chap No. Pg No.2 – 24, 29 - 51 	<p><i>Students should be able to:</i></p> <ul style="list-style-type: none"> *recognize the figures and place them in their respective periods, compare the figures in both International and Pakistani place value, differentiate between both charts, round off the figures *do multiplication and division *solve any given word problems related to the topic
<ul style="list-style-type: none"> ● Angles Chap No.9 Pg No.207 - 221 ● Fractions Chap No.3 Pg No.60 – 74, 81 - 96 	<ul style="list-style-type: none"> *recognize different types of angles, draw the angles, measure the angles at a point *find the value of vertically opposite angles, unknown angles *solve any types of fractions either like, unlike *differentiate Proper, Improper ,Mixed numbers and Equivalent fractions *simplify the fraction, how to add, subtract, multiply and divide the fractions *convert fractions in different units of length, time and weight
<ul style="list-style-type: none"> ● Ratio Chap No 4 Pg No. 104 - 114 ● Area of Triangle Chap No. 10 Pg No. 223 – 226, 234, 240 - 248 ● Algebra (Addition, Subtraction, Multiplication and Division) Photocopy 	<ul style="list-style-type: none"> *compare different values and simplify these values *make equivalent ratios * find any missing ratios *recognize the triangle either by sides or by angles *find out the area of triangle or base of triangle * use letters to express generalised numbers; * use four operation for calculation of algebraic equations;
<ul style="list-style-type: none"> ● Decimals Chap No.5 Pg No. 123 – 129, 133 - 149 ● Averages Chap No. 7 Pg No. 172 - 176 	<ul style="list-style-type: none"> *read and write the values given in decimals *recognize any single value and put it in correct place value *multiply and divide the values given in decimals, convert the unit of measurement *find out average, calculate the total value or any missing value which is given to them
<ul style="list-style-type: none"> ● Percentage Chap No. 6 Pg No. 157 - 162 ● Properties of a Triangle and 4 – Sided figures Chap No.10 Pg No. 255 - 269 	<ul style="list-style-type: none"> *get an idea about percentage *find out the percentage *know how to convert decimal values into percentage, fractional value into percentage , decimal values into percentage * solve any word problems related to the topic *find out the value of any missing angle *differentiate any four sided figure Square, Rectangle, Rhombus, Trapezium etc.

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<ul style="list-style-type: none"> ● Geometrical Construction Chap No. 12 Pg No.235 - 237 ● Algebra (Removal of Brackets) Photocopy ● Volume of Cube and Cuboids Chap No. 8 Pg No. 185 - 204 	<p>*construct angle or any 4-sided figure, triangle either by sides or by angles</p> <p>* use four operation for calculation of algebraic equations and simplify by removing the brackets</p> <p>*Find out the volume of cube or Cuboids, length, breadth, or height of the figure</p> <p>*convert the units of measurement</p>
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Activities:

August 2011	<ul style="list-style-type: none"> ●Mental Maths ● Maths activity calendar
September 2011	<ul style="list-style-type: none"> ● Puzzle ● Maths activity calendar
October 2011	<ul style="list-style-type: none"> ● Maths Fun Activity ● Maths activity calendar
November 2011	<ul style="list-style-type: none"> ●Maths Quiz/ MCQs ● Maths activity calendar
December 2011	<ul style="list-style-type: none"> ●MID TERM EXAMS
January 2012	<ul style="list-style-type: none"> ● Mental Maths ● Maths activity calendar
February 2012	<ul style="list-style-type: none"> ● Puzzle ● Maths activity calendar
March 2012	<ul style="list-style-type: none"> ● Maths Fun Activity ● Maths activity calendar
April 2012	<ul style="list-style-type: none"> ●Maths Quiz/ MCQS ● Maths activity calendar
May 2012	<ul style="list-style-type: none"> ●FINAL TERM EXAMS

Assessment and Home Work

Students will be assessed by taking test of each and every chapter. Home Work shall be given on a daily basis.

Resource List

- My pals are here! Mathematics Book 1-5
- Understanding Mathematics Book 1- 5
- Countdown Mathematics Book1- 5
- Understanding Mathematics Book 1 -5
- SPMG Mathematics Book 1- 5
