

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

Books:

Lu jitan, New Syllabus Primary Mathematics 4 along with practice books 4a& 4b, 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:

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|----------------|---|
| August 2011 | <ul style="list-style-type: none"> ●Review of Numbers to 100 000 ●Rounding off to nearest 10 and 100 ● Factors and Multiples ●Table of 2- 6 |
| September 2011 | <ul style="list-style-type: none"> ●Area and Perimeter ●Double Multiplication ●Table of 2- 10 |
| October 2011 | <ul style="list-style-type: none"> ● Decimals I & II ●Definition and types of triangles (a/c to size and angle) ● Table of 2-12 |
| November 2011 | ●REVISION FOR MID TERM EXAMS |
| December 2011 | ●MID TERM EXAMS |
| January 2012 | <ul style="list-style-type: none"> ● Time ●Square and Rectangles ● Table of 2 -14 |

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|---------------|---|
| February 2012 | <ul style="list-style-type: none"> ● Fractions ● Parallel and Perpendicular lines ● Table of 2-15 |
| March 2012 | <ul style="list-style-type: none"> ● Division (Divisibility Rules) ● Table and Line Graph ● Tables 2 -16 |
| 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"> ● Numbers to 10.000 (1) Chap No.1 Pg No.2 - 27 | <p><i>Students should be able to:</i></p> <ul style="list-style-type: none"> *recognize numbers to 100 000, Compare numbers within 100 000 * Round off numbers to nearest ten, Round off number to nearest hundred, Estimate the numbers *find factors and multiples |
| <ul style="list-style-type: none"> ● Area and Perimeter Chap No.12 Pg No. 208 - 224 ● Multiplication Chap No.2 Pg No. 30 - 39 | <ul style="list-style-type: none"> * recognize rectangle and square, find area and perimeter, composite figures * solve word problems related to the topic * do the multiplication by one digit number, Multiplication by two digit number, division by a 1 digit number *solve the word problems related to the operation *understand perpendicular lines *draw perpendicular lines and parallel lines |
| <ul style="list-style-type: none"> ● Decimals (1) Chap No.8, 9 ● Decimals (2) Pg No. 125 - 177 | <ul style="list-style-type: none"> *understand tenths, understand hundredths, understand thousandths, compare decimals, round off decimals , fractions and decimals * use the four operations addition, subtraction, Multiplication & division, Estimation of decimals, *solve word problems involving decimals |
| <ul style="list-style-type: none"> ● Time Chap No.13 Pg No.227 – 240 ● Geometrical figures Chap No.11 Pg No.201 - 206 | <ul style="list-style-type: none"> *attain knowledge about time and duration *convert hours and minutes, add and subtract *use and interpret the vocabulary of four sided figures more on square and rectangles, triangles, |
| <ul style="list-style-type: none"> ● Fractions (1) Chap No.3 ● Fractions (2) Chap No.4 Pg No.50 - 83 ● Perpendicular and parallel lines Chap No.6 Pg No. 100 - 107 | <ul style="list-style-type: none"> * add like fractions, add related fraction, subtract like fractions, subtract related fractions *solve the word problems *change mixed numbers, improper fraction, *do conversion of fraction, fraction of a set *solve word problems related to the topic *understand perpendicular lines *draw perpendicular lines and parallel lines |
| <ul style="list-style-type: none"> ● Division Chap No.2 Pg No.40 - 47 ● Table & line Graph Chap No.5 Pg No.86 - 98 | <ul style="list-style-type: none"> learn quotient and remainder, odd and even numbers, differentiate between even and odd numbers *divide without remainder and regrouping *interpret and read the data accurately |

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Activities:

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|----------------|---|
| 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 4a and b
- Understanding Mathematics Book 1- 4
- Countdown Mathematics Book1- 4
- Understanding Mathematics Book 1 - 4
- SPMG Mathematics Book 1- 4

