

MATHEMATICS

3-DIMENSIONAL GEOMETRIC RUBBER STAMPS

Philograph 516.15 DIM
14 stamps

40 THINKING GAMES TO MAKE AND PLAY

Williams, M. 793.7 WIL
40 games provide a variety of approaches for introducing and enhancing mathematical skills. K-7.

APF PROJECTOR CALCULATOR

510.28 APF
Big number transparent calculator for use with an overhead projector.

AUNTY PASTA'S FRACTION GAME

793.74 AUN
A board game that introduces children to fractions while they piece together a pizza. For ages 6 and up.

BAG-O-MATHS

Aboriginal Education Resource Unit 510.7 BAG
A comprehensive kit of 60 activity sheets, 12 resource and duplicating sheets, 4 coloured plant/animal sheets, cardboard spinners and coins.

BIG BOOK OF TIME

Edmonds, W. 529 EDW
This book is a journey in time through seconds, minutes, hours, day/night, seasons, decades, millennia, light years and more. Along the way many themes such as musical rhythms, signs of the zodiac, black holes and predicting the future can be explored. Lively, full colour illustrations complement the text and there is a surprise on every page. Excellent resource for middle and upper primary.

THE BOOK OF CHALKFACE VOLUME TWO

Min. of Ed. Victoria 510.7 SMI
A lively collection of ready to use maths activities from the magazine "Chalkface".

BORN TO ADD

782.42
Music CD for early childhood. Sesame Street characters sing rock and roll songs to teach basic number facts.

BREAKING OUT

510.7 BRE
Themes based mathematics activities for early childhood and primary teachers.

BREAKTHROUGH MATHS

Walker, J. 510.76 WAL
A K-7 mathematics course. Each unit of work achieves clearly stated objectives.

CALCULATOR MATHS

Vervoort, G. 510.76 VER
Beginning, intermediate and advanced levels. Duplicating masters. Student motivating activity sheets which provide a bridge between the pocket calculator, real life problems, and the mathematical concepts you want to teach.

CALCULATOR ACTIVITIES FOR THE CLASSROOM

Immerzeel, G. 510.76 IMM
Activities for the classroom. Provides success-oriented experiences for student through the use of the inexpensive four-function calculator.

MATHEMATICS

CALCULATOR PROBLEM SOLVING CARDS

Rigby

513.2076 IRD

4 sets, (levels 2-6), of 24 activity cards to develop student thinking and reasoning skills. (A component of the Rigby Maths 2000 scheme).

CASH AND CARRY

510 CAS

A game designed to give children practical experience in the recognition and handling of coins up to the value of \$1.

CENTS-ABILITIES

Farnette, C.

330.076 FAR

Reproducible pupil activity pages designed to help boys and girls develop awareness of the importance and influence of money in everyday life. Upper primary.

CHANCE AND DATA, VOLS 1, 2

Lovitt, C.

519.207 CHA

An MCTP program. Each volume contains 20 extended investigations from teachers across the country. The investigations are rich in problem solving, communication, simulations, real issues, group work, concrete aids, technology support, links to other topics and the world outside school. Covers all primary and secondary levels from preprimary up.

CHILDREN LEARN TO MEASURE AREA

Reeves, M.

516.2207 REE

A Mathshop project. It may be used independently or in teacher development programs.

CLINOMETER

523.3302 INV

Point the '+gun' at the top of the building or tree, keep your arm straight and look along the sights. Pull the trigger until the angle wheel settles. Release the trigger and the angle will be held for you to record. All you need now is your distance from the building in order to find the height of the building.

CLOCK FACES

Learning resources

500/681.113 CLO

10 stand up clock faces with movable hands.

CLOCK STAMP

500/681.113 CLO

6cm diameter rubber stamp.

CLOCK-O-DIAL

Educational Insights

(EC)

Teaches minutes to hours with instant self-checking answers. Clock face plus 4 wheels to provide 96 different questions.

COUNT ON IT

Feely, J.

513.211 FEE

24 small books each containing a simple number story. The first eleven books takes one of the numbers zero to ten as their focus. The other books deal with aspects of counting such as before, one after, doubling, ordering and counting backwards. There is also a big book to accompany the set, a teacher's book and a set of laminated cards featuring the numbers 0 – 10.

COUNT WELL

(EC)

A game to help children understand the concept of numbers. Count Well trains visual perception, arranging and storing, analysis of quantities and the use of cardinals.

COUNTING OWL PUZZLE

(EC)

22 piece puzzle. Owl with number puzzle.

MATHEMATICS

DEVELOPING NUMBER SENSE IN THE MIDDLE GRADES

Reys, B.

513.071 DEV

Ideas and activities to support the implementation of the Curriculum and Evaluation Standards for School Mathematics which highlight the importance of number sense - in Standard 5 (Number and number Relationships) and Standard 7 (Computation and Estimation). Teaching number sense requires a change in approach to the teaching and learning of mathematics, focusing on the students and their solution strategies rather than on a 'right answer'. This book looks at what number sense is, considers the teacher's role in fostering the development of number sense and provides examples and activities that illustrate teaching for number sense.

DICE

The Centre holds many sets of dice – of various sizes and design.

DICTIONARY OF MATHEMATICS

510.3 HBJ

This easy to use, uncomplicated dictionary clearly defines the majority of words and symbols found in secondary school and tertiary mathematics courses.

DIME MATHEMATICS

516.06 DIM

Hands on puzzles and activities for developing mathematical concepts. All primary levels. The Resource Centre holds the following:

DIME SOLIDS

FLEXISET

PATTERN PACK A

OCTAFLEX

TAKTILES

PATTERN PACK B

SHAPE JIGSAW

SHAPE FIT

LINE SYMMETRY

PENTAGON TRIANGLES

INTERLOCKING SQUARES

SHAPE DISCRIMINATION

REGULAR TILINGS PROJECT PACK

SPACIAL REASONING PUZZLES

DINO MATH TRACKS

510 DIN

This colourful board game uses plastic dinosaur playing pieces. It features three separated sets of playing rules and game variations to meet the needs and interests of a broad range of children. The game focuses on attention on place value and problem solving strategies. Years 1-4.

EQUIVALENCE DOMINOES

513.26 SLA

A 24 piece domino set to provide practice in recognising fractions in common use and expressing them both as vulgar fractions and their decimal equivalents.

EVERYTHING YOU WANT TO KNOW ABOUT OUTCOMES FOCUSED MATHEMATICS EDUCATION AND WHAT IT MEANS FOR YOUR CLASSROOM

510.7 PER

A document to support the implementation of outcomes focused mathematics: understanding the outcomes, planning and programming, and assessment.

FAMILY MATHS PROJECT AUSTRALIA (FAMPA)

Mathematical Association of Western Australia

510.7 FAM

A curriculum package for teachers planning family maths programs. K-middle secondary.

FIGURE IT OUT

510.76 FEN

Books 1,2 & 3, cover basic numeracy and actively link mathematics with the student environment. The exercises are graded and are designed to lead to extension activities. Students and teachers alike find these exercises both entertaining and rewarding.

FIRST STEPS

510.7 LEA

LEARNING MATHEMATICS THROUGH CONSTRUCTIONS

LEARNING MATHEMATICS THROUGH WATERPLAY

LEARNING MATHEMATICS THROUGH PLIABLE SUBSTANCES

RESOURCE CATALOGUE

MATHEMATICS

LEARNING MATHEMATICS THROUGH ART AND CRAFT

LEARNING MATHEMATICS THROUGH COOKING

LEARNING MATHEMATICS THROUGH MUSIC

LEARNING MATHEMATICS THROUGH IMITATIVE PLAY

Ministry of Education publications for the "First Steps" program. Activities, for pre-primary and year 1, designed to support the Learning Mathematics K-7 Syllabus.

FRACTION CAKE

(EC)

Wooden fraction cakes - square or round.

FRACTIONS

500/793.74 FRA

An original game to form whole circles with fractional pieces of different sizes. A fun way to learn the relationship between fractions. For ages 5-10

FUN NUMBERS

510 FUN

Number matching and dice game for 2-6 players, ages 4-8. Several variations of games can be played according to ability level. Useful to introduce the concepts of quantity, and progress to games that sharpen adding and subtraction skills for numbers adding up to 10.

FUN WITH FOOD

Owen, A.

510.76 OWE

A simple, colourful look at space, measurement and number using the theme of food. Each double page spread deals with a different mathematical concept and encourages simple associated activities. Clear colour photographs include a variety of children and, together with the diagrams, tables and games, clarify the text. Lower primary.

THE GENIE BRICK

A set of interlocking bricks with a wide range of uses, particularly in mathematics. The bricks have endless possibilities for problem solving, exploration, design and patterning. The set includes suggestions for activities and examples of work done by grade 4 and grade 6 students.

GEO. STRUCT MATHEMATICAL MODEL CONSTRUCTION OUTFIT

510 GEO

This set comprises 300 x 20cm straws, 250 x 10cm straws and 150 x 25cm straws in 4 colours - red, white, blue and yellow. There are also 500 x 5cm lengths for making junctions and transparent nylon thread. The kit may be used to make 2 dimensional and 3 dimensional figures.

GEOMETRIC SHAPES

516.15 GEO

4 colours of 16 different geometric shapes.

GEOMETRY AND FRACTIONS GEOBOARD ACTIVITY KIT

510 GEO

Kit includes one double sided geoboard and an activity book featuring 40 activities for middle-upper primary. Teaching notes, vocabulary, selected solutions and extension ideas are provided for the activities.

GET SMART : TEACHING MATHS THROUGH ART

Williams, Doug

510.7 WIL

Step by step lessons for years 1-6 provide a fresh approach to maths teaching through creative art and craft activities.

GIROFORM

(EC)

GIRONUMBER

Each set consists of four easy puzzles and a spinner which can be used to play an exciting game. A fun way for children to learn basic shapes/numbers and object classification. K-1.

HERE WE GO

Davidson, A.

510.71 DAV

MATHEMATICS

The activities in this book provide practical ideas for teachers who are concerned with improving mathematics in the classroom. "MOVING ON" and "TOWARDS MATHEMATICS" are other books in the series. Junior primary.

HOW BIG IS THE MOON

Baker, D.

510.71 BAK

A "whole maths" program designed to provide stimulating, interesting and challenging maths experiences for primary students.

IDEAS AND ACTIVITIES FOR USING CALCULATORS IN THE CLASSROOM

Immerzeel, G.

510.281 IMM

This book suggests classroom calculator activities. Many of the activities fit the mathematics curriculum. Examples from science and social studies also are included.

IDEAS FOR MATHS

Wilson, J.

510.7 WIL

A NEW SPRINGBOARDS book. Practical starting points and ideas, and a range of activities to enable children to use and enjoy maths in their everyday lives. It includes chapters on organisational strategies, newer areas of the curriculum such as Space, Chance and Data and a number of chapters focusing on topics such as Environmental Education, Events, and Using the Newspaper. For teachers of all primary levels.

INFUSING THINKING INTO THE MIDDLE YEARS- MATHS, SCIENCE, TECHNOLOGY.

Pohl, Michael 2002

153.407 POH

Explains just what higher order thinking is and provides examples of thinking-skills activities for secondary mathematics, science, technology and cross-curriculum units.

INVESTIGATION CARDS

ATM

510.76 INV

67 investigation cards covering a range of mathematical ideas. Upper primary lower secondary.

IT'S TIME: CELEBRATING MATHS WITH PROJECTS

Wilson, J.

510.7 WIL

A practical resource book for primary teachers who want to develop their maths programs to actively involve students in their own learning through independently pursued investigations.

THE LANGUAGE OF MATHEMATICS

Martin, M.

428.43 MAR (BB)

Information and practical ideas based on Magic Bean strand C big books.

LEAP FROG COUNTERS

-EC-

Set of 72 counters, with 6 suggested activities. Help students with counting 4 colours / species.

LEAP INTO MATHS

510 LEA

11 activity cards (22 activities), 48 frog counters plus teacher's notes to help build counting, sorting, addition and subtraction skills in K-3.

LEARNING FROM CHILDREN

Labinowicz, E.

510.7 LAB

This book attempts to build a bridge between theory, research, and classroom practice, with the aim of supporting informed change in the school. The ultimate goal is to promote children's numerical thinking and to ensure their survival in a rapidly changing world.

LEARNING MATH

510 LEA

A 15 piece set of multicolour, double sided, arithmetical number and symbol tiles. Could also be used as a jigsaw.

MATHEMATICS

LET'S EXPLORE MATHS 2000, STUDENT'S BOOK 3, TEACHER'S BOOK 3

Couchman, K. 510.76 COU
Part of a completely revised edition of this established maths series. Includes objectives; introductory activities; activity bank; blackline masters, etc., plus student's book with answers included. Junior primary.

LITRE SET 502.8 LIT
5 containers each with a different height, width or base area; 4 of the containers hold a litre of liquid, flour, sand etc.

LOOK AND PLAY 516 LOO
Set A or Set B, plus an activity book. Intended for use as an aid for young children in their first year of school.

MACMILLAN MATHEMATICS LEVEL 1 (K-2)
LEVEL 2 (3-4)
LEVEL 3 (5-7)

A range of resources for teachers looking for a practical approach to support activity based maths programs. Each level includes teacher's resource books, children's books, activity cards, lap books.

MAKING PROBLEMS, CREATING SOLUTIONS.

Ostrow, J. 510.7 OST
This book shows teachers how to encourage kids to create problem-solving strategies and then to share and discuss those strategies with peers.

MATCHING NUMBERS IS FUN DOMINOES : STAGE 1, NUMBERS 1-10

510 MAT
A fun way to practise counting, the recognition of number words and numerals, simple addition and subtraction skills and the conservation of number.

MATH MAGIC 510 MAT

A self-correcting adding and subtracting game for 1-4 players ages 5-7 years. The player matches a problem card with an answer card and then turns them over. If the answer is correct a complete animal picture is formed on the other side.

MATH WIZARDRY FOR KIDS

Kenda, M. 500/793.74 KEN
A wealth of exciting and creative mathematical activities for a range of levels. Over 200 puzzles, games, designs and projects combine Space, Measurement and Number activities with ones in Working mathematically and Chance and data. The graphics are simple and appropriate and the diagrams and mathematical illustrations clear and uncluttered. A glossary and index is included. Lower primary - lower secondary.

THE MATHEMATICAL ADVENTURES OF RALPH

Rusden Centre for Studies in the Curriculum 500/ 793.74 KEN
A collection of challenging materials for mathematically talented children.

MATHEMATICS ACTIVITY CARDS, YEARS 4-7

MATHEMATICS ACTIVITY CARDS, YEARS 1-3

West Australian 510.76 MAT
Maths activity using newspapers. 50 cards in each set.

MATHEMATICS CURRICULUM AND TEACHING PROGRAM (MCTP)

Curriculum Development Centre 510.7 MAT

MATHEMATICS

A comprehensive package containing videos, software, guidelines and support material for primary and lower secondary teachers.

MATHEMATICS LEARNING FOR LIFE

MATHEMATICS LEARNING FOR LIFE: BOOK TWO

MATHEMATICS LEARNING FOR LIFE: BOOK THREE

Hammond, P. Vincent, J. Williams, D.

510.7 HAM

Mathematics Learning for Life is a series of three teacher resource books aimed at covering the primary mathematics curriculum from beginners to year 6. The series is developed around the National Statement on Mathematics and addresses the prescribed process and content strands, and assessment strategies which aid in profiling students' mathematical growth. A flexible approach ensures that the books can be used either alongside existing texts or as a separate programme. It aims to equip students with the mathematical understandings, skills and attitudes for life and places mathematics teaching in the everyday contexts of:

- Mathematics around the school
- Mathematics at home and at work
- Exploring mathematical ideas
- Mathematics across the curriculum

Mathematics Learning for Life offers teachers a rich resource of mathematical tasks and a planning format that will enable them to develop their own flexible program to suit their students' needs.

MATHEMATICS LEARNING FOR LIFE : BOOKS 1, 2 & 3

Hammond, P.

510.7 HAM

Three books which cover the primary mathematics curriculum from lower primary to year 6. The books are developed around the National Statement on Mathematics and address the prescribed process and content strands, and assessment strategies which aid in profiling students' mathematical growth. They may be used as a separate program or alongside other texts, offering teachers a rich resource of mathematical tasks and a planning format that will enable them to develop their own flexible program to suit their students' needs.

MATHS CHALLENGES

Beale, G.

510.76 MAT

This book presents a collection of activities providing open-ended and divergent educational challenges for able learners.

MATHS GAMES TO MAKE AND PLAY

Tertini, J.

510.76 TER

Simple-to-make games to reinforce and consolidate early maths concepts.

MATHS IN CONTEXT

Edwards, D.

510.71 EDW

A thematic based approach to maths for primary teachers including advice on how to handle group work, classroom organisation and assessment strategies. Ideas for activities are included for a variety of themes.

MATHS PLUS 1

MATHS PLUS 1 TEACHER'S BOOK

MATHS PLUS 3

Brighthouse, A.

510.76 BRI

Part of a series of books which apply acquired mathematical skills in the development of structured and systematic thinking through investigations, problem solving, puzzles and games. Junior-upper primary.

MATHEMATICS

- MATHSBANK** 510.7 MAT
A compendium of activities in pure mathematics for teachers of primary and junior secondary grades who prefer activity-based sessions in their classroom.
- MATHSWISE SERIES** 510.76 MAT
Set of small books - lots of ideas - different levels.
- MATHEMATICAL PROBLEM SOLVING PROFILES** 510.76 COL
Collis, K. Romberg, T.
- MATHTIVITIES** 510.76MAT
Aboriginal Education Resource Unit
A book containing many different maths activities. It is specifically designed for children in junior primary, but can be adapted for older children.
- MENTAL ARITHMETIC AND PROBLEM SOLVING year 3, 4, 5, 6, 7.** 513.2076 LEW
Lewis, B.
Each book holds 40 weekly programs, plus resource pages and problem sets. Emphasis is placed throughout on number facts and money. Many exercises have been rounded to the nearest 5 cents to reflect the decision to phase out the 1c and 2c coins.
- METRIC DOMINOES** 500/793.74 MET
This set of 24 dominoes covers linear measurement, capacity and weight. Both vulgar and decimal fractions are used. A game for up to 4 players.
- MINABLE** 513 MIN
SAMABLE 516 SAM
Curriculum Development Centre, Canberra
Manipulation in number and space and measurement for able children. A teacher resource for those who wish to provide enrichment activities for their more able students. For all primary levels.
- MIND STRETCHERS**
MINDSTRETCHERS 2 510.76 FLA
Flatt, D.
For the busy teacher who is anxious to develop pupils' lateral thinking and creative problem-solving skills, each book is packed with interesting, innovative, reproducible puzzles and activities arranged in nine sequentially-graded stand alone units. Years 3-9.
- MIRA MATHS** 516 MIR
Mira Maths Activities for elementary school, provides intriguing investigations founded on significant mathematical principles at a level so fundamental that all students can share in the joy of discovery. A set of 15 'Miras' accompanies the book.
- MIRROR GAME** 510 MIR
2 mirrors plus patterned blocks and cards. The object of the game is to reproduce the image on a card using 2 blocks and a mirror. Helps develop an understanding of shape and symmetry.
- MONEY DICE** 510 MON
A set of six large plastic dice with 5, 10, 20, 50 cent, \$1 and \$2 coins on the faces.
- MONEY LOTTO** 510 MON
A game for 1-4 children, designed to assist with the ready identification of Australian coins and to give practice in recognising that an amount of money can be tendered in many different ways.
- MOVING INTO MATHS** 510

MATHEMATICS

This material has been developed in consultation with maths curriculum advisers in each state. It is concerned with relating maths to familiar and everyday environments. Core Books, Teachers' Resource Books, Duplicating Masters, Evaluation Masters, Stimulus Pictures, Activity Books and Crazy Daisy Box. Years K-7.

MTA TESSELLATION & SHAPE PUZZLES

510

MTA Shape & Puzzle - Triangle

MTA Shape & Puzzle - Square,

MTA Shape & Puzzle - Circle

Coloured spots at critical edges allow children to assemble the puzzle by matching colours. Also helps them recognise geometric forms.

MULTICULTURAL MATH LAB

510 MUL

48 hands on, critical thinking activities integrating maths topics with a multicultural approach. Kit includes teaching guide, activity cards, polyhedra dice, dominoes, pattern blocks, mirrors and bean counters. Middle primary – lower secondary.

MULTIPLE INTELLIGENCES IN THE MATHEMATICS CLASSROOM

Martin, H.

510.7 MAR

A book designed to ignite students' interest in mathematics with an assortment of learning experiences that tap into the multiple intelligences. It comprises projects and activities that incorporate real world situations and integrate maths into other learning areas, helping students to see mathematics as a powerful problem-solving tool, feel confident in their ability to do mathematics, and communicate and reason mathematically. The book includes charts of maths topics and intelligences that are cross referenced to the activities, multi-dimensional assessment ideas, grading matrices and student work sheets. Upper primary/secondary.

MULTIPLICATION DOMINOES

513.2 MUL

Useful for practice and reinforcement of tables from 2 to 9. Comprises four sets of 24 dominoes which may be used separately or combined. Each covers two multiplication tables, eg. the yellow set covers tables 2 and 3.

MUSICAL TIMES TABLES

513.213 SPE

1 sound cassette. Sing along with Don Spencer and friends and make practising tables fun.

NESTING MEASURE SET 2

542.2 NES

A set of 5 measure: 10 ml, 25 ml, 50 ml, 100 ml & 250 ml. Each measure is calibrated with a clearly marked scale.

NO PROBLEM : TAKING THE PROBLEM OUT OF MATHEMATICAL PROBLEM SOLVING

Vydra, J.

510.76 VYD

The role of the mathematician involves more than the use of computational skills. It involves using logic, looking for patterns, discovering rules and organising data, and requires imagination, reasoning and flexibility. This book presents the eight problem solving strategies that will allow students to solve mathematical problems most consistently. Problems are arranged as a year long program. Teaching suggestions and complete answers are given for the first eight weeks' problems. Problems provided for the remainder of the year may be solved by individual students or used in small cooperative learning teams. Upper primary.

NUMBER DOMINO

(EC)

The game of dominos adapted this time for numbers. The players can match the numbers with the pictures showing a quantity of objects.

NUMBER FUN

(EC)

15 Piece puzzle with lots to discover age 3 to 6.

THE NUMBER GAME

513.211 WOO

MATHEMATICS

6 laminated game sheets. The games range from beginning number to application of addition, subtraction, multiplication and division and are designed for groups of 2 to 5 students. The notes on the reverse of each sheet describe the mathematical outcomes achieved in using the games, the mathematical and everyday language used in the games, the group organisation, the manipulative materials needed, how to play the games and assessment strategies to evaluate student performance. Junior primary.

NUMBER PARADE

Wood, J.

513.211 WOO

A variety of wildlife, each with its own personality and humorous description, are depicted in this unusual counting book which goes beyond the traditional 1-10 to include 11 and 12, then 15, 20, 25, 50 ending with 101. A useful, attractive book for pre-primary and lower primary.

NUMBER PLAY

513.2 NUM

Picture and number playing cards with instructions for nine card games to help younger children to develop counting, sorting and number skills.

NUMBER PUZZLE

(EC)

A self correcting wooden puzzle set to give children practise in counting and identifying numbers one to ten.

NUMBER QUEST

513.2 NUM

This board game for ages 7+ provides an enjoyable way for students to practise mental arithmetic and numerical skills.

NUMBERS RACE

510 NUM

A game for ages 6 to 9. This is a race in which the more sums you answer correctly the faster you move. However, separate race tracks can be set (one with easier questions than the other) so that children of mixed ability can play together.

NUMERO

795.4 NUM

An educational card game that can be played in developmental stages, allowing players to progress according to their level of ability and teachers to direct players as a strategy to develop new concepts. The game helps to develop a wide range of mathematical skills. At various stages fractions, percentages, decimals and more complex mathematical concepts can be introduced. We now have a classroom set of Numero, containing 15 pack of cards.

ONE YELLOW LION

Van Fleet, M.

513.211 VAN

A fold out counting book of colours and animals, which finishes with a fold out frieze.

OPEN ENDED MATHS ACTIVITIES

Sullivan, P.

510.76 SUL

Open ended questions have the potential to stimulate higher levels of thinking and are a necessary part of mathematics teaching to develop problem solving, application, and the development of a variety of thinking skills. The authors look at a particular type of open question which they call a 'good' question. They describe the features of 'good' questions, how to create 'good' questions, give some practical ideas for using them in the classroom and provide many examples that can be use in mathematics programs.

OVER ON THE FARM

Turner, G.

821 TUR

A counting rhyme using farm animals and with each page following the same catchy pattern. Preprimary/lower primary.

OVERHEAD PENTOMINOES

Set of 12 red semi-transparent plastic pentominoes for use with an overhead projector.

THE OWL'S TREE

Asco

(EC)

Identification and classification game for K-1

PARENT HELPER TAPES

Kemp, J.

649.68 KEM

A set of three audiotapes, one of which deals with mathematics. It discusses what primary school maths is all about, how children learn about maths and how parents can help their children to develop interest and competencies in maths.

PATTERN BLOCKS

Class set of wooden pattern blocks.

PATTERN BLOCKS FOR THE OVERHEAD PROJECTOR

516

49 coloured pieces for use on an overhead projector

PATTERN BLOCK ACTIVITY CARDS

516 PAT

250 brightly coloured wooden shapes and 18 double sided activity cards to help all levels to understand mathematical concepts. Teacher's guide included.

PATTERN FACTORY

Roper, A.

510.76 ROP

Elementary problem solving through patterning. Junior & middle primary.

PATTERNS IN MATHEMATICS K-6 : BOOK 4

Board of Studies, NSW

510.7 PAT

25 investigations and activities from mainly the Number and Space strands. Each activity is provided with teaching notes which offer organisational, assessment and evaluation suggestions and includes extension activities which challenge students to further investigate particular mathematical concepts or ideas in depth. The problems and activities are open ended and involve pre algebra activities. Students are challenged to develop thinking, reasoning and communicating skills through the study of patterns using a problem solving approach.

PENTOMINO ACTIVITIES

Picciotto, H.

793.73 PIC

A book of pentomino puzzles arranged in six sets - Warm-Ups, Creatures, Pairs, Stairs, Rectangles and Blow-Ups, each set being arranged roughly in order of difficulty.

PENTOMINOES : PUZZLE SHAPES TO MAKE YOU THINK

Millington, J.

793.74 MIL

94 pentomino puzzles, plus suggested solutions, activities and interesting information.

PRACTICAL MEASUREMENT ACTIVITIES

510.8 PRA

A file of measurement activities for years 1-7.

PRETEND & PLAY CASH REGISTER

510 PRE

This sturdy cash register is a working solar powered calculator with oversized buttons and big number display. It holds full sized notes and coins, and comes with toy credit card and suggested activities.

PROBLEM SOLVING WITH DINOS

510 PRO

MATHEMATICS

Plastic dinosaurs (six species in six colours) are used as counters with this set of problem solving activity cards. Activities include work with attributes, patterns and sequences, numeration, data gathering, graphing, fractions and probability. K-4.

PROBLEM SOLVING WITH PENTOMINOES

516.15076 ABR

Provides hands on activities for children in grades 1- 4. Many of the activities can be adapted for middle primary as well. The book presents a variety of geometric and spatial concepts.

RAIN FOREST ACTIVITY KIT

510 RAI

Hands on maths and science activities for K-2. 22 activity cards plus 72 plastic rainforest animals.

RAINBOW PENTOMINOES

72 pentominoes – 6 sets of 12, each in a different colour. Each piece has been scored to show the five congruent squares that form the pentomino in order to help students to visualise area and perimeter and promote understanding.

REAL LIFE MATHS

510.76 REA

This book gives you experience in using maths skills in everyday life.

RIGBY MATHS 2000

Activity based learning involving students in verbal, concrete and written mathematical situations. The Centre holds Teacher Resource Packs, Core Books and Activity and Assessment Books for levels 0-7. Supplementary materials held include **Maths Investigation Cards**, **Calculator Problem Solving Cards**, plus the following big book sets:

Maths Read-Together

Read and Count

Big Books Sets 2

(see Shared Book section for details)

RIGBY MATHS INVESTIGATIONS

510.76 RIG

PACK 1 (7-9 year olds)

PACK 2 (8-10 year olds)

PACK 3 (9-11 year olds)

PACK 4 (10-12 year olds)

Problem solving activities to encourage children to think creatively in using mathematical skills to develop strategies and techniques appropriate to a particular problem or situation.

ROCKER SCALES

Invicta 510 ROC

These balance scales are made in tough, washable material and even one gram will register a movement. The detachable tubs are designed to swivel to correct objects when placed off centre.

SHAPES BULLETIN BOARD SET

516.15 SHA

14 piece kit - 6 different shapes plus notes and blank reproducible patterns.

SHAPE STAND

(EC)

6 x 9 different shapes and colours - total 54 pieces. Board size 24 x 24 cm.

SPACE SHOT

510.2 SLA

An exciting game giving practice in the most common uses of the calculator. Junior/middle primary.

SPECIAL RHOMBUS : For the brighter child – Work cards.

510.70941 SPE

A journal of the Mathematical Association of W.A. for primary teachers.

TABLES GAMES

Dawson, R.

513.2076 DAW

MATHEMATICS

Fun games and activities to familiarise the child with multiplication facts. 7-11 year olds.

TASKMASTER GEOMETRICAL MODELS 516 GEO

30 plastic geometrical shapes.

TEACHING WITH THE HAND-HELD CALCULATOR

Bitter, G. 510.76 BIT

Numerous activities for the exploration and understanding of calculator application.

TEN SLY PIRANHAS: A COUNTING TALE IN REVERSE

Wise, W. 513.211 WIS

Magnificent humorous illustrations provide a wealth of visual detail of the wildlife of the South American jungle in this picture book style counting story. The rhythmic text will delight children with its repetition and highly descriptive language which also makes use of alliteration. Pre-primary-middle primary.

THINK MATHEMATICALLY: HOW TO TEACH MENTAL MATHS IN THE PRIMARY CLASSROOM

Mcintosh, A 513.907 MCI

The rationale behind this book is that children must be taught how to calculate mentally using a variety of mental calculation strategies rather than simply being expected to know answers instantly. The authors provide activities which help to improve children's mental computation abilities and explain how to structure, record and evaluate these activities. Part 2 of the book, entitled Key Sessions, describes seven basic formats for lessons for regular use with a whole class. Activities are oral, require no materials and can be adapted for use with children of any age. Part three gives support activities, with ideas to consolidate areas of weakness. These sections are supported by an introduction and a section of background material.

THREE BEAR FAMILY COUNTER -EC-

Set of 96 bear counters, 3 sizes, 3 weights and 6 colours. Improving early learner's skills in counting and sorting.

TIME LOTTO 529 TIM

Digital time, analogue time, time in words, time past and future are all concepts covered in this game which can be played individually or as a lotto game for up to 4 players.

TIMING IT RIGHT

Self checking game providing hands on time telling practise. Players roll the time die to move through the day and use a clock face to match analogue and digital time. For ages 7+.

TRIED AND PROVEN MATHS ACTIVITIES

Hyslop, A. 510.76 HYS

This book presents tried and proven ideas for teaching mathematics using a wide range of structured materials. It also offers practical suggestions for the organisation of the classroom and the timetable, so that children may effectively experiment and explore in an activity based program. Years 2-8.

UNDERSTANDING MATHEMATICS: TEACHERS' RESOURCE BOOK

Davidson, A. 510.7 DAV

A valuable resource for the teacher of 7 year olds.

UNIFIX STRUCTURAL MATHS MATERIAL 510 UNI

Unifix cubes form the basis of a graded scheme which can be used effectively at every stage of elementary mathematics. Teacher's manual available.

WA MATHEMATICS - YEAR 7

Wood, G. 510.76 WOO

MATHEMATICS

Reflects the philosophy of the WA primary mathematics syllabus. Throughout, it presents an activity orientated approach to enable pupils to appreciate the relevance of what they are doing.

A WAY WITH MATHS

Langdon, N.

510 LAN

A book of investigations, providing an exciting way of exploring mathematics. The book can be read and enjoyed by anyone from the age of 10 upwards.

WOODEN CUBES

Ministry of Education

510.7 WOO

A selection of activities from the primary mathematics student workbooks and activity cards. Arranged in 3 sections - Space, Measurement, Number - each section covers all primary levels.

WORKING MATHEMATICALLY: INVESTIGATIONS

Olsen, Kevin.

510.71 WOR

Working Mathematically: Investigations is a collection of 20 mathematics units for use by teachers from primary to upper secondary levels. It continues the MCTP tradition of providing exciting and motivating materials which illustrate challenging, meaningful and effective classroom practice. These units reflect the process-oriented nature of the "Working Mathematically" strand by providing engaging and practical examples of how mathematics can be applied in investigating everyday situations.

YAHTZEE

500/793.73 YAH

The favourite game of luck and strategy using basic number skills.

THE YOUNG CHILD AND MATHEMATICS

Copley, Juanity V.

510.7 COP

Offers classroom vignettes and teacher-tested activities and strategies that will inspire early childhood teachers to roll up their sleeves and do great things with math!