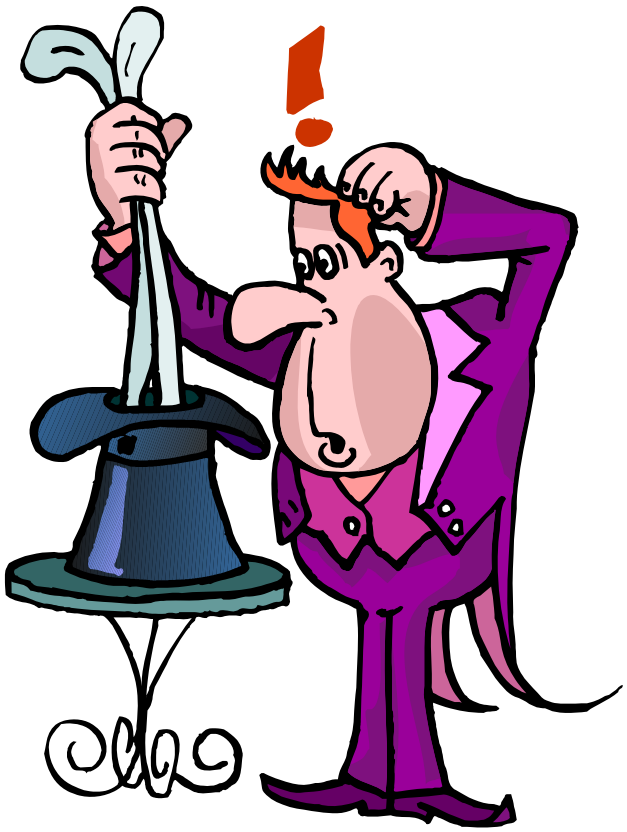
What are Magic Words?

Magic Words help math students explain WHY they solve problems in a certain way.

Use these Magic Words when you want to explain your mathematics work:

- To find…
- To get…
- To see…
- To figure out…
- To show…
- To prove…
- Because…
- Since…
- Therefore…



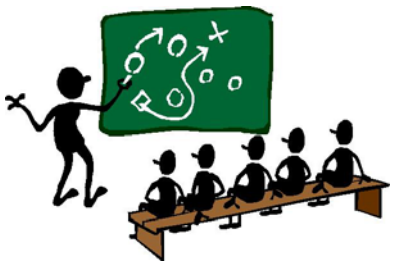
Tips for Solving Word Problems

1. **Show** all your work on the work side.
2. **Number** each step of your work.
3. **Label** the answer of each step.
4. **Write** an explanation for each step of your work.
5. **Number** each explanation step.
6. **Tell** what you did without using any numbers.
7. **Use** *Magic Words* in each explanation.
8. **Write** your final answer, with labels.

WORK	EXPLANATION
1.	1.

Final Answer: _____

Problem Solving Strategies



- ☑ Act It Out
- ☑ Use Objects
- ☑ Choose an Operation
- ☑ Guess and Check
- ☑ Look for a Pattern
- ☑ Use Logical Reasoning
- ☑ Draw a Picture
- ☑ Make a Table
- ☑ Make an Organized List
- ☑ Work Backwards
- ☑ Solve a Simpler Problem
- ☑ Write an Equation

Mathematics
Materials List
2009

Grade Four

Pearson enVision, 2009

Student Edition
Premium Digital System Upgrade (Student Edition users - 6 year license)
Teacher's Edition
Teacher's Resource Package

- Teacher Resource Masters 1-20
- 1 – Topics 1-20 Teaching Tool Master
- Overview and Implementation Guide
- Topic 1 - Numeration
- Topic 2 - Adding and Subtracting Whole Numbers
- Topic 3 - Multiplication Meanings and Facts
- Topic 4 - Division Meanings and Facts
- Topic 5 - Multiplying by 1-digit Numbers
- Topic 6 - Patterns and Expressions
- Topic 7 - Multiplying by 2-digit Numbers
- Topic 8 - Dividing by 1-digit Numbers
- Topic 9 - Lines, Angles, and Shapes
- Topic 10 - Understanding Fractions
- Topic 11 - Adding and Subtracting Fractions
- Topic 12 - Understanding Decimals
- Topic 13 - Operations with Decimals
- Topic 14 - Area and Perimeter
- Topic 15 - Solids
- Topic 16 - Measurement, Time and Temperature
- Topic 17 - Data and Graphs
- Topic 18 - Equations
- Topic 19- Transformations, Congruence, and Symmetry
- Topic 20 - Probability

Teacher Access Pack Premium Digital System
Diagnosis and Intervention System
PSSA Math Test Prep with Teacher's Guide
Guided Problem Solving Math Library
Visual Learning Bridge Transparencies

Investigations in Number, Data, and Space

Curriculum Units Package
Resource Package
- Transparencies/blackline
- 16 sets numeral cards
- 32 rulers
- 2 sets fraction dice
- 16 array cards
- 16 sets of bldg. straws
- 1 pad hundreds chart
- Family letters
- Pad geoboard dot paper
- Pad 1" graph paper
- Pad 3/4" graph paper 8X11
- Pad 3/4"graph paper 11x17
- Pad 1cm graph paper

AssessmentSourcebook
Student Materials Kit
- 3 rolls of adding mach.tape
- 750 coins & 320 paper $
- 10 measuring tapes
- 1 set geometric solids
- 10 cm rulers
- 50 lima bean seeds
- 400 square color tiles
- 100 colored cubes
- 16 sets wooden geoboards
- 2000 snap cubes
- 5 sets wooden blocks (250@set)

MATH TEXT ALIGNMENT TO ASSESSMENT ANCHORS – GRADE 4

Lesson	Assessment Anchor	Lesson Title
Topic 1: Numeration (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
1-1	M4.A.1.1.4	Thousands
1-2	M4.A.1.1.4	Millions
1-3	M4.A.1.2.2	Comparing and Ordering Whole Numbers
1-4	M4.A.3.1.1	Rounding Whole Numbers
1-5	M4.A.1.2.2	Using Money to Understand Decimals
1-6	M4.A.1.2.2	Counting Money and Making Change
1-7	M4.A.2.1.1	Make an Organized List
Topic 2: Adding and Subtracting Whole Numbers (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
2-1	M4.A.2.1.1	Using Mental Math to Add and Subtract
2-2	M4.A.3.1.3	Estimating Sums and Differences of Whole Numbers
2-3	M4.A.2.1.1	Missing or Extra Information
2-4	M4.A.2.1.1	Adding Whole Numbers
2-5	M4.A.2.1.1	Subtracting Whole Numbers
2-6	M4.A.2.1.1	Subtracting Across Zeros
2-7	M4.A.2.1.1	Draw a Picture and Write an Equation
Topic 3: Multiplication Meanings and Facts (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
3-1	M4.A.2.1.1	Meanings of Multiplication
3-2	M4.A.2.1.1	Patterns for Facts
3-3	M4.A.2.1.1	Multiplication Properties
3-4	M4.A.2.1.1	3 and 4 as Factors
3-5	M4.A.2.1.1	6, 7, and 8 as Factors
3-6	M4.A.2.1.1	10, 11, and 12 as Factors
3-7	M4.A.2.1.1	Draw a Picture and Write an Equation
Topic 4: Division Meanings and Facts (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
4-1	M4.A.2.1.1	Meanings of Division
4-2	M4.A.2.1.1	Relating Multiplication and Division
4-3	M4.A.2.1.1	Special Quotients
4-4	M4.A.2.1.1	Using Multiplication Facts to Find Division Facts
4-5	M4.A.2.1.1	Draw a Picture and Write an Equation
Topic 5: Multiplying by 1-Digit Numbers (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
5-1	M4.A.2.1.1	Multiplying by Multiples of 10 and 100
5-2	M4.A.2.1.1	Using Mental Math to Multiply
5-3	M4.A.3.1.1	Using Rounding to Estimate
5-4	M4.A.2.1.1	Reasonableness
5-5	M4.A.2.1.1	Using an Expanded Algorithm
5-6	M4.A.2.1.1	Multiplying 2-Digit by 1-Digit Numbers
5-7	M4.A.2.1.1	Multiplying 3-Digit by 1-Digit Numbers
5-8	M4.A.2.1.1	Draw a Picture and Write an Equation

Lesson	Assessment Anchor	Lesson Title
Topic 6: Patterns and Expressions (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
6-1	M4.D.2.2.1	Variables and Expressions
6-2	M4.A.2.1.1	Addition and Subtraction Expressions
6-3	M4.A.2.1.1	Multiplication and Division Expressions
6-4	M4.A.2.1.1	Use Objects and Reasoning
Topic 7: Multiplying by 2-Digit Numbers (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
7-1	M4.A.2.1.1	Using Mental Math to Multiply 2-Digit Numbers
7-2	M4.A.3.1.3	Estimating Products
7-3	M4.A.2.1.1	Arrays and an Expanded Algorithm
7-4		Multiplying 2-Digit Numbers by Multiples of Ten
7-5		Multiplying 2-Digit by 2-Digit Numbers
7-6	M4.A.2.1.1	Multiplication: Special Cases
7-7	M4.A.2.1.1	Two-Question Problems
Topic 8: Dividing by 1-Digit Divisors (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
8-1	M4.A.2.1.1	Using Mental Math to Divide
8-2	M4.A.3.1.3	Estimating Quotients
8-3	M4.A.2.1.1	Dividing with Remainders
8-4	M4.A.2.1.1	Connecting Models with Symbols
8-5	M4.A.2.1.1	Dividing 2-Digit by 1-Digit Numbers
8-6	M4.A.2.1.1	Dividing 3-Digit by 1-Digit Numbers
8-7	M4.A.2.1.1	Deciding Where to Start Dividing
8-8	M4.A.1.3.1	Factors
8-9		Prime and Composite Numbers
8-10	M4.A.2.1.1	Multiple-Step Problems
Topic 9: Lines, Angles, and Shapes (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
9-1	M4.C.1.2.1	Points, Lines, and Planes
9-2	M4.C.1.2.1	Line Segments, Rays, and Angles
9-3	M4.C.1.1.1	Measuring Angles
9-4	M4.C.1.1.1	Polygons
9-5	M4.C.1.1.1	Triangles
9-6	M4.C.1.1.1	Quadrilaterals
9-7	M4.A.2.1.1	Make and Test Generalizations
Topic 10: Understanding Fractions (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
10-1	M4.A.1.1.2	Regions and Sets
10-2	M4.A.1.1.2	Fractions and Division
10-3	M4.A.1.1.2	Estimating Fractional Amounts
10-4		Equivalent Fractions
10-5		Fractions in Simplest Form
10-6	M4.A.1.1.2	Improper Fractions and Mixed Numbers
10-7	M4.A.1.2.1	Comparing Fractions
10-8	M4.A.1.2.1	Ordering Fractions

Lesson	Assessment Anchor	Lesson Title
10-9	M4.A.2.1.1	Writing to Explain
Topic 11: Adding and Subtracting Fractions (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
11-1	M4.A.3.2.2	Adding and Subtracting Fractions with Like Denominators
11-2		Adding Fractions with Unlike Denominators
11-3		Subtracting Fractions with Unlike Denominators
11-4	M4.A.2.1.1	Draw a Picture and Write an Equation
Topic 12: Understanding Decimals (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
12-1	M4.A.1.1.1, M4.A.1.1.3	Decimal Place Value
12-2	M4.A.1.2.1	Comparing and Ordering Decimals
12-3	M4.A.1.2.1	Fractions and Decimals
12-4	M4.A.1.2.1	Fractions and Decimals on a Number Line
12-5	M4.A.1.2.1	Mixed Numbers and Decimals on a Number Line
12-6	M4.A.2.1.1	Draw a Picture
Topic 13: Operations with Decimals (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
13-1	M4.A.3.1.3	Rounding Decimals
13-2	M4.A.2.1.2	Estimating Sums and Differences of Decimals
13-3	M4.A.2.1.2	Models for Adding and Subtracting Decimals
13-4	M4.A.2.1.2	Adding and Subtracting Decimals
13-5		Multiplying a Whole Number and a Decimal
13-6		Dividing a Decimal by a Whole Number
13-7	M4.A.2.1.1	Try, Check, and Revise
Topic 14: Area and Perimeter (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
14-1		Understanding Area
14-2		Area of Squares and Rectangles
14-3		Area of Irregular Shapes
14-4		Area of Parallelograms
14-5		Area of Triangles
14-6	M4.B.2.2.1	Perimeter
14-7		Same Perimeter, Different Area
14-8		Same Area, Different Perimeter
14-9	M4.A.2.1.1	Solve a Simpler Problem and Make a Table
Topic 15: Solids (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
15-1	M4.C.1.1.2	Solids
15-2	M4.C.1.1.2	Views of Solids: Nets
15-3	M4.C.1.1.2	Views of Solids: Perspectives
15-4		Volume
15-5	M4.A.2.1.1	Look for a Pattern
Topic 16: Measurement, Time, and Temperature (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
16-1	M4.B.2.1.1	Using Customary Units of Length
16-2	M4.B.2.2.1	Customary Units of Capacity

Lesson	Assessment Anchor	Lesson Title
16-3	M4.B.2.2.1	Units of Weight
16-4		Changing Customary Units
16-5	M4.B.2.2.1	Using Metric Units of Length
16-6	M4.B.2.2.1	Metric Units of Capacity
16-7	M4.B.2.2.1	Units of Mass
16-8		Changing Metric Units
16-9	M4.B.1.1.1, M4.B.1.1.2	Units of Time
16-10	M4.B.1.1.3, M4.B.1.1.4	Elapsed Time
16-11		Temperature
16-12	M4.A.2.1.1	Work Backward
Topic 17: Data and Graphs (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
17-1	M4.E.1.1.1	Data From Surveys
17-2	M4.E.1.1.1	Interpreting Graphs
17-3		Line Plots
17-4	M4.C.3.1.1	Ordered Pairs
17-5		Line Graphs
17-6		Mean
17-7		Median, Mode, and Range
17-8		Stem-and-Leaf Plots
17-9		Reading Circle Graphs
17-10	M4.E.1.2.1	Make a Graph
Topic 18: Equations (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
18-1	M4.D.2.1.1	Equal or Not Equal
18-2	M4.D.2.2.1	Solving Addition and Subtraction Equations
18-3	M4.D.2.2.1	Solving Multiplication and Division Equations
18-4	M4.D.2.2.2	Understanding Inequalities
18-5	M4.A.2.1.1	Work Backward
Topic 19: Transformations, Congruence, and Symmetry (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
19-1		Translations
19-2		Reflections
19-3		Rotations
19-4		Congruent Figures
19-5	M4.C.2.1.2	Line Symmetry
19-6	M4.C.2.1.2	Rotational Symmetry
19-7	M4.A.2.1.1	Draw a Picture
Topic 20: Probability (Daily Lessons include Problem Solving: M4.A.2.1.1, M4.A.2.1.2)		
20-1		Finding Combinations
20-2	M4.E.3.1.1	Outcomes and Tree Diagrams
20-3		Writing Probability as a Fraction
20-4	M4.A.2.1.1	Use Reasoning

Mathematics Assessment Anchor Glossary
Grades 3 & 4

The definitions for this glossary were taken from one or more of the following sources: Webster's Dictionary, various mathematics dictionaries, the PA Mathematics Standards glossary and various textbook glossaries.

Acute angle: An angle with a measure less than 90°.

Addend: Any number that is being added.

Analog time: Time displayed on a timepiece having hour and minute hands.

Area: The measure, in square units, of the inside of a plane figure.

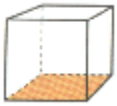
Array: A rectangular arrangement of objects in equal rows or columns.

Combination: A group of items. Placing these items in a different order does not create a new combination.

Cone: A solid figure that has a circular base and one vertex.

Congruent: Having the same size and shape.
- Congruent angles have the same measure.
- Congruent segments have the same length.

Cube: A rectangular solid having six congruent square faces.



Cylinder: A three-dimensional figure with two circular bases, which are parallel and congruent.

Edge: The line segment where two faces of a solid figure meet.

Equation: A statement that two mathematical expressions are equal.

Equivalent: Having the same value.

Expression: A variable, or any combination of numbers, variables, and symbols that represents a mathematical relationship (e.g., 24 x 2 + 5 or 4a – 9).

Face: A plane figure that serves as one side of a solid figure.

Fact family: A set of related addition and subtraction, or multiplication and division equations using the same numbers (e.g., 6+9=15, 15-9=6, 9+6=15, 15-6=9).

Factor: A whole number that divides evenly into another whole number (e.g., 1, 3, 5, and 15 are factors of 15).

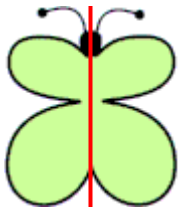
Function: A relation in which every input value has a unique output value.

Hexagon: A polygon with 6 sides.

Inequality: A mathematical sentence that contains a symbol that shows the terms on either side of the symbol are unequal (e.g., 3+4>6).

Line: A straight path extending in both directions with no endpoints.

Line of symmetry: A line that divides a figure into two halves that are mirror images of each other.



Line segment: A part of a line with two endpoints.

Mean (average): The number found by dividing the sum of a set of numbers by the number of addends.

Median: The middle number in an ordered set of data, or the average of the two middle numbers when the set has two middle numbers.

Mode: The number(s) that occurs most often in a set of data.

Multiples: The product of a given whole number and another whole number (e.g., multiples of 4 are 4, 8, 12, 16….).

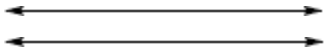
Number sentence: An equation or inequality with numbers.

Obtuse angle: An angle with a measure more than 90º.

Octagon: A polygon with 8 sides.

Ordered pair: A pair of numbers used to locate a point on a coordinate grid. The first number tells how far to move horizontally, and the second number tells how far to move vertically.

Parallel lines: Lines that never intersect and are always the same distance apart.

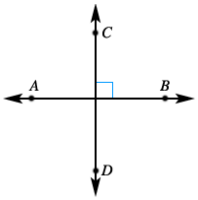


Parallelogram: A quadrilateral whose opposite sides are parallel and congruent.

Pentagon: A polygon with 5 sides.

Perimeter: The distance around a figure.

Perpendicular lines: Two lines, segments or rays that intersect to form right angles.



Pictograph: A graph that uses pictures to show and compare information.

Pyramid: A solid figure with a polygon base and triangular sides that meet at a single point (vertex).

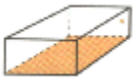

rectangular pyramid


triangular pyramid

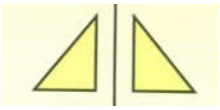
Quadrilateral: A polygon with 4 sides.

Ray: A part of a line that has one endpoint and continues without end in one direction.

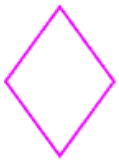
Rectangular prism: A solid figure in which all six faces are rectangles.



Reflection (flip): A transformation that produces the mirror image of a figure.



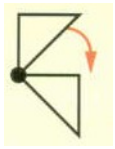
Rhombus: A parallelogram with four equal sides.



Right angle: An angle that measures exactly 90º.

Right triangle: A triangle that has a 90º angle.

Rotation (turn): A movement of a figure that turns that figure around a fixed point.



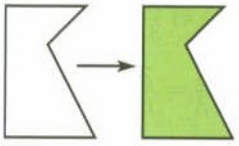
Sphere: A solid figure that has all points the same distance from the center.

Tally chart: A table that uses tally marks to record data.

Favorite School Lunches

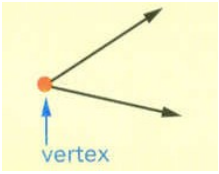
Hamburger	
Pizza	
Salad	
Hotdog	

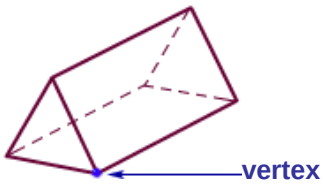
Translation (slide): A movement of a figure to a new position without turning or flipping it.



Trapezoid: A quadrilateral with exactly one pair of parallel sides.

Vertex: A point where lines, rays, sides of a polygon or edges of a polyhedron meet (corner).





Volume (capacity): The amount of space (in cubic units) that a solid figure can hold.

enVision *Worldscapes Readers* Literature Ties (by Topic)

includes Guided Problem Solving masters with each book

- Dazzling Designs - Topic 1, 9, 19
- First in Space - Topic 2, 7
- All Roads Lead to Rome - Topic 3, 4, 5, 10
- All Tied Up - Topic 8, 11
- It's a Big Country - Topic 12, 16, 17, 20
- Wild, Wet and Windy – Topic 13, 18
- Building Blocks – Topic 14, 15

Websites that have book lists of children's literature in mathematics:

http://www.math.youngzones.org/literature.html
Children's Literature in Mathematics

http://www.luc.edu/schools/education/csimath/zbib.htm
A selected bibliography of available books to teach and reinforce math concepts

http://mathforum.org/t2t/faq/brandenburg.new.html
Guy Brandenburg compiled a list of over 140 math and science-related books, mostly recent, for his geometry students to choose from, read, and do a report on, using recommendations from others and his own reading as well. This page includes the assignment he gave to his students and also the list, organized by topic, with links to Amazon.com.

http://www.cde.ca.gov/ci/scimathlit/
Literature for Science and Mathematics: Kindergarten Through Grade Twelve is a collection of outstanding science- and mathematics-related literature for children and adolescents. The recommended titles reflect the quality and the complexity of the types of materials students should be reading at school and outside of class.

Mathematical Poetry

"Finding Time" - JoAnne Growney
"Asparagus X Plus Y [An Arithmetic and Poetic Error]" - Ken Stange
"Pi" - Robert Morgan
"The Icosasphere" - Marianne Moore
"Plane Geometry" - Emma Rounds
"Geometry Class" - JoAnne Growney
"The Starfish" - Robert P. Tristram
"Coffin Arithmetic" - Carl Sandburg
"Tulips" - Padraic Colum
"E = MC2" - Morris Bishop
"Euclid Alone Has Looked on Beauty Bare" - Edna St. Vincent Millay
"Landscape VI from Six Significant Landscapes" - Wallace Stevens
"My Dance is Mathematics" - JoAnne Growney
"Geometry" - Rita Dove Pi - Wislawa Szymborska

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Statistics	Yue, C., & Yue, D. (1997). *Shoes: Their History in Words and Pictures*. Boston, MA: Houghton Mifflin.

Careers Related to Mathematics

*Banker
*Engineer
*Math Professor
*Map Maker
*Astronaut
*Architect
*Accountants
*Cashier
*Waitress
*Pharmacist
*Weather reporting
*Video game designer
*Environmental forecasting
*Police information systems
*Salary and benefit analyst
*Bank loan officer
*Stock and bond analyst
*Investment analysis
*Portfolio management
*Cash flow analysis
*Cost accounting
*Industrial cost control
*Business consulting
*Time study and methods
*Casualty insurance
*Life insurance agent
*Group insurance agent
*Demographic analysis
*Production planning
*Consumer behavior analysis
*Economic analysis
*Taxation systems
*Tax consultant
*Modeling genetic systems
*Modeling biological systems
*Air traffic control modeling
*Modeling economic systems
*Transportation modeling
*Medical information systems
*Inventory control
*Production control
*Factory scheduling
*Traffic control
*Weapons analysis
*Contract negotiations
*Management consulting
*Corporate planning
*Administration
*Customer service
*Marketing services
*Safety coordinator
*Statistical support
*Forecasting
*Human resources allocation
*Teacher
*Computer aided design
*Telecommunications
*Communications systems
*Computer network design
*Computer system performance
*Computer privacy techniques
*Customer software support
*Data processing
*Research data analysis
*Programmed instruction
*Programmer analyst
*Storage and retrieval systems
*Banking system
*Library systems
*Retail transactions systems
*Energy allocation management development
*Labor resource and allocation
*Employee relations management
*Fault sensing systems
*Population dynamics
*Experimental design
*Agriculture efficiency studies
*Test analysis
*Interpret social data
*Trade analysis
*Product performance analysis
*Conversational computer systems
*Exploration management
*Man-environment analysis
*Urban planning coordinator
*Psychological categorizations
*Psychological scaling
*Student information systems
*Management information systems
*Law-case storage and retrieval
*Inertial navigation systems
*Computerized cartography
*Industrial process control
*Engineering studies
*Pollution studies
*Critical path analysis
*Computer animation
*Chartered accountancy
*Statistical research
*Statistical analysis
*Survey design and analysis
*Public opinion sampling