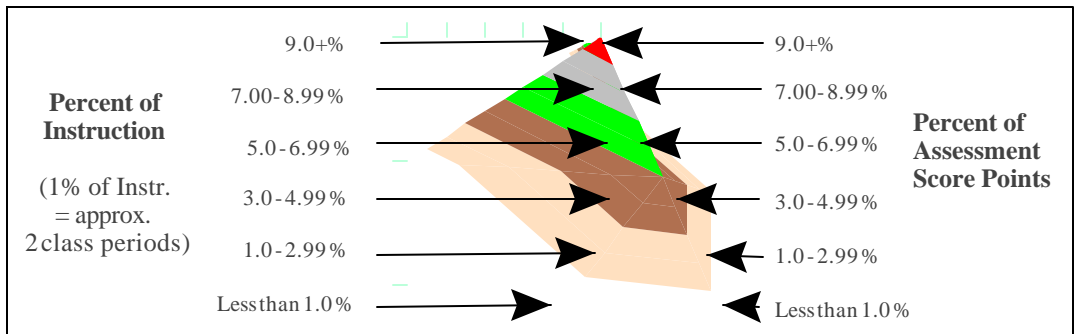
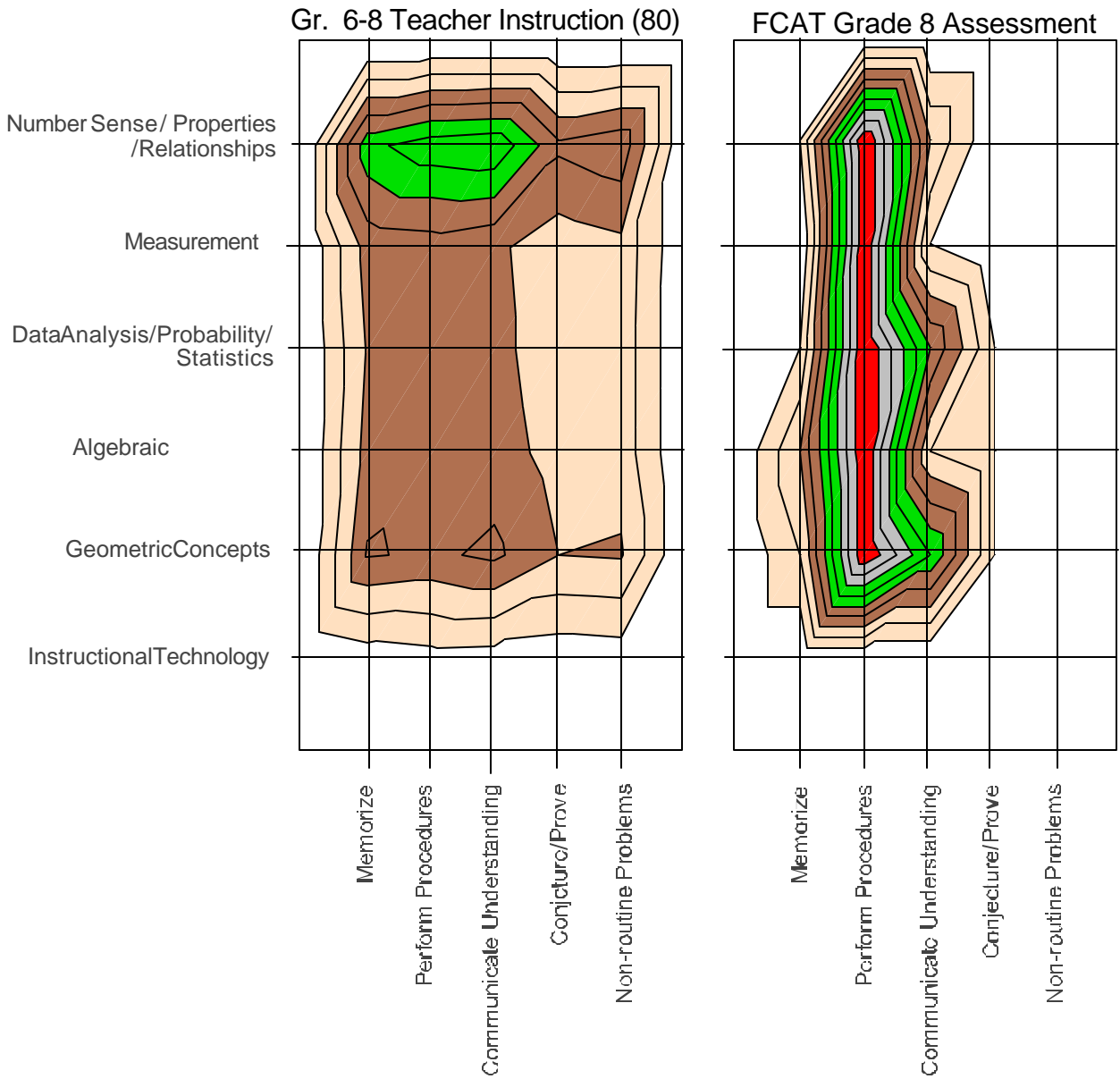


# Chart T

## Mathematics Curriculum Content

### Miami-Dade Public Schools

#### Instruction / Assessment

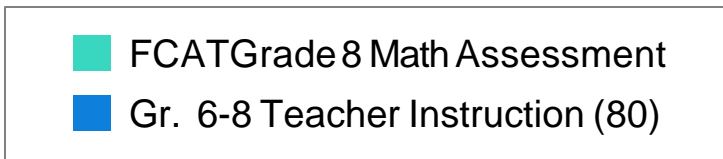
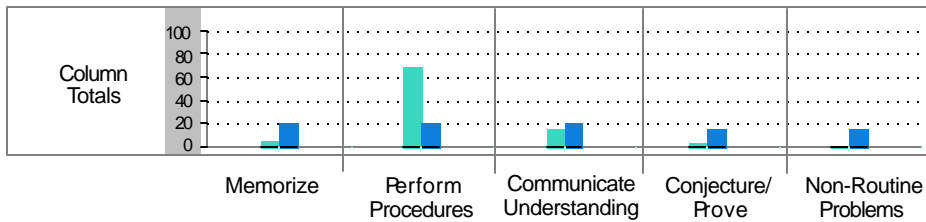
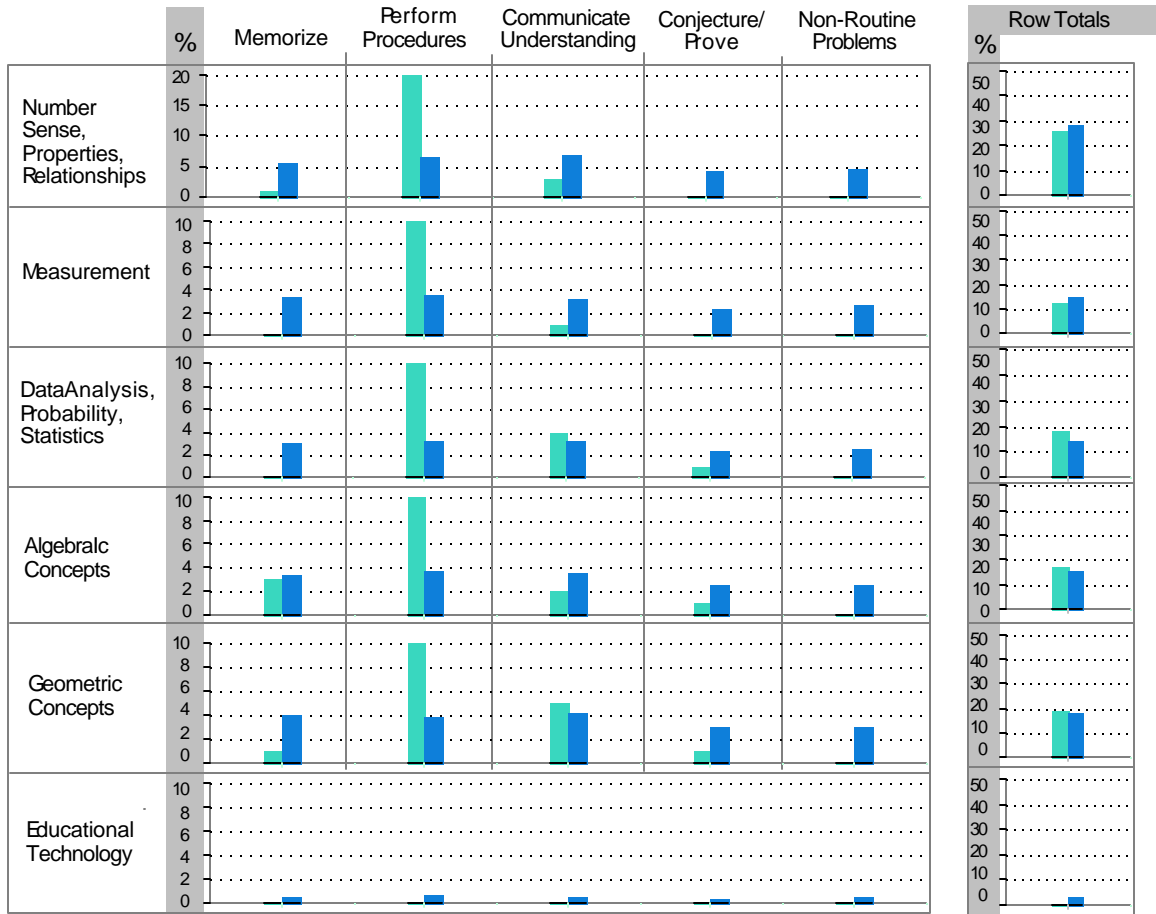


# Chart U

## Mathematics Curriculum Content

### Miami-Dade Public Schools

#### Instruction / Assessment

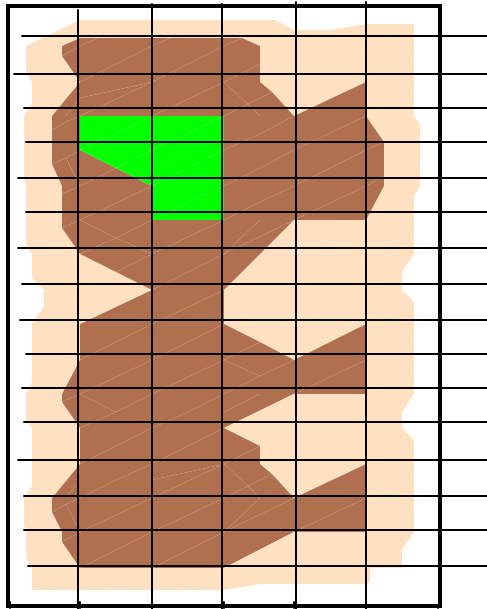


# Mathematics Content Map AA1

## Miami-DadePublicSchools

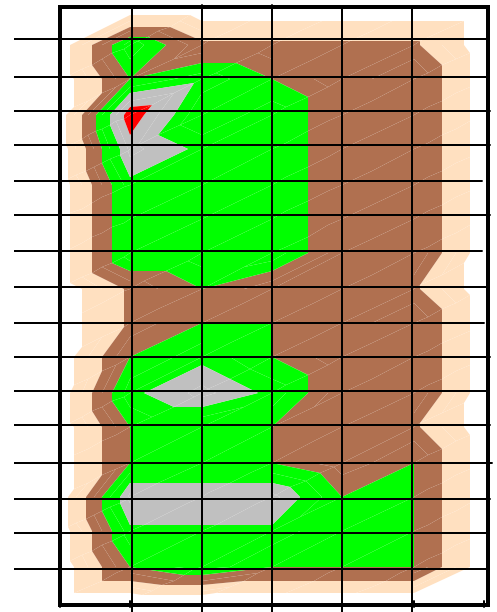
### Number Sense/Properties/Relationships

Gr. 6-8 Teacher Instruction (80)



**B C D E F**

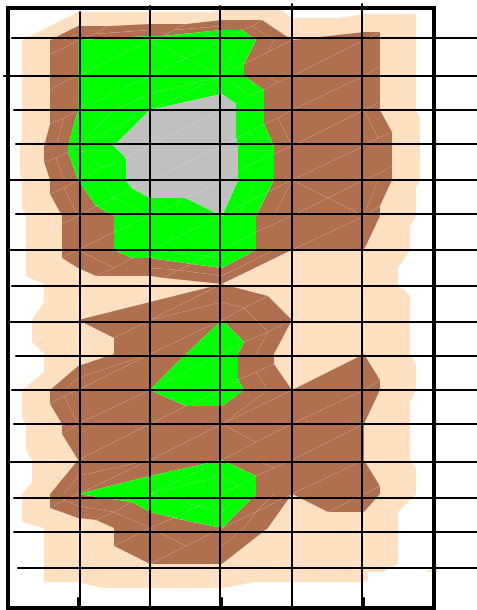
Grade 8 Instruction (23)



**B C D E F**

- Place Value
- Whole numbers
- Operations
- Fractions
- Decimals
- Percents
- Ratio, Proportion
- Patterns
- Real numbers
- Exponents, scientific notation
- Factors, multiples, divisibility
- Odds, evens, primes, comp.
- Estimation
- Order of Operations
- Relationships betwn. operations
- Mathematical Properties

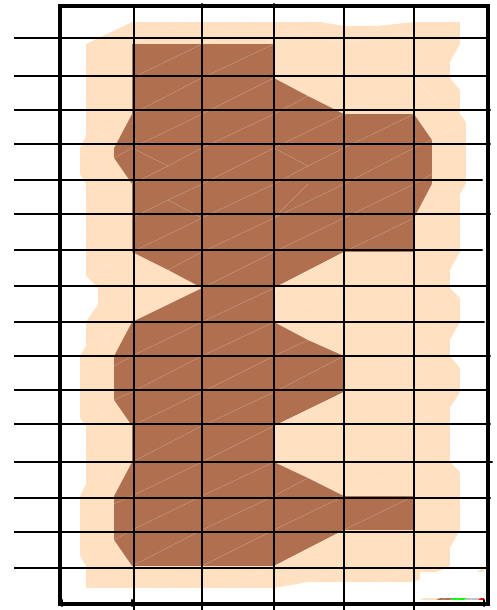
Grade 6 Instruction (22)



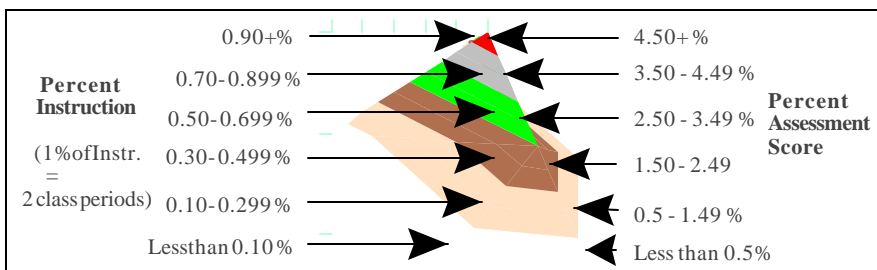
**B C D E F**

- Place Value
- Whole numbers
- Operations
- Fractions
- Decimals
- Percents
- Ratio, Proportion
- Patterns
- Real numbers
- Exponents, scientific notation
- Factors, multiples, divisibility
- Odds, evens, primes, comp.
- Estimation
- Order of Operations
- Relationships betwn. operations
- Mathematical Properties

Grade 7 Instruction (30)



**B C D E F**

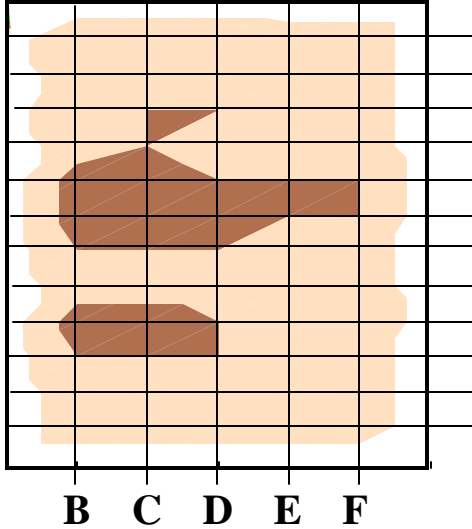


- B** Memorize
- C** Perform Procedures
- D** Communicate Understanding
- E** Conjecture/Prove
- F** Non-routine/Novel Problems

# Mathematics Content Map AA2

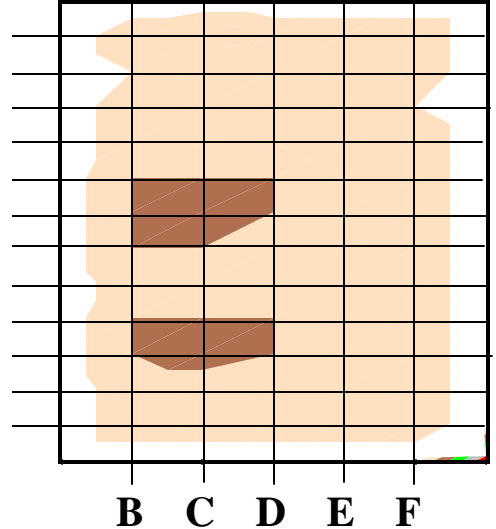
## Miami-DadePublicSchools Measurement

Gr. 6-8 Teacher Instruction (80)

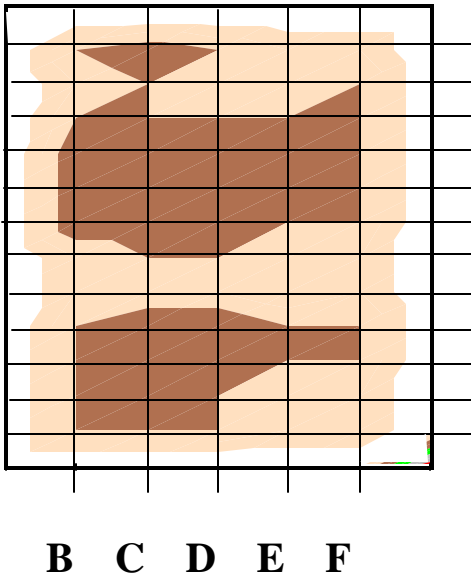


Use of meas. Instruments  
Theory (arbitrary, standard, etc.)  
Conversions  
Metric (SI) system  
Length, perimeter  
Area, volume  
Surface Area  
Direction, Location, Navigation  
Angles  
Circles (e.g., pi, radius, area)  
Mass (weight)  
Time, Temperature

Grade 8 Instruction (23)

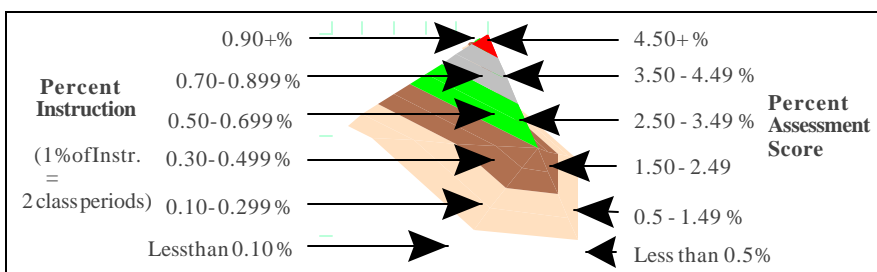
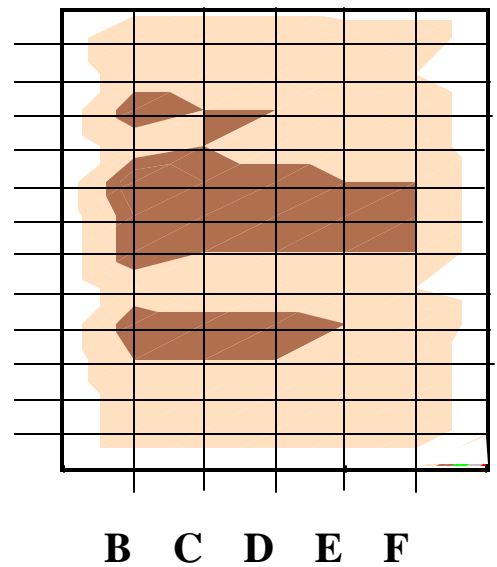


Grade 6 Instruction (22)



Use of meas. Instruments  
Theory (arbitrary, standard, etc.)  
Conversions  
Metric (SI) system  
Length, perimeter  
Area, volume  
Surface Area  
Direction, Location, Navigation  
Angles  
Circles (e.g., pi, radius, area)  
Mass (weight)  
Time, Temperature

Grade 7 Instruction (30)

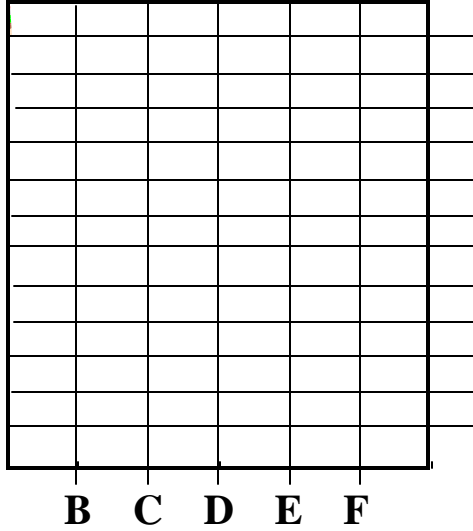
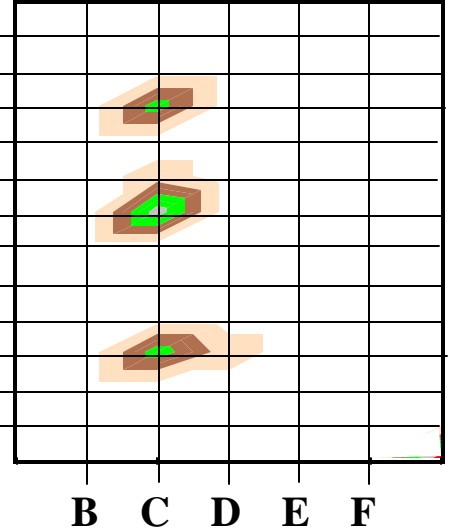


- B** Memorize
- C** Perform Procedures
- D** Communicate Understanding
- E** Conjecture/Prove
- F** Non-routine/Novel Problems

# Mathematics Content Map AA2

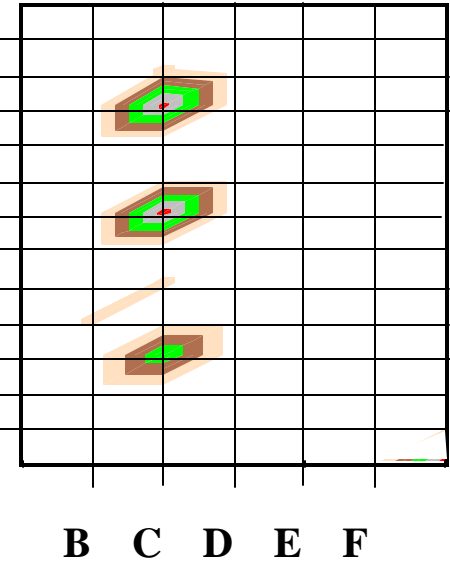
## Miami-DadePublicSchools Measurement

Grade 8 FCAT Assessment

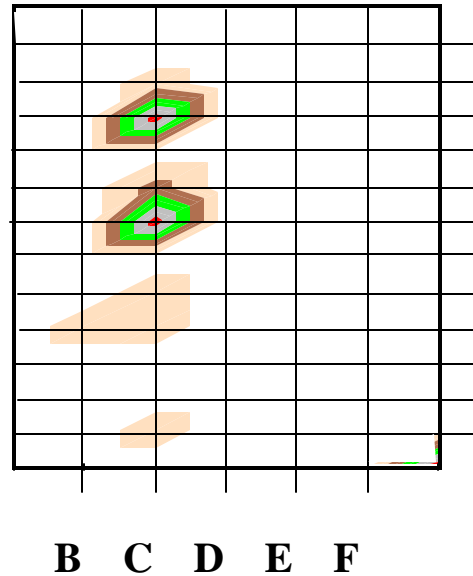


Use of meas. Instruments  
Theory (arbitrary, standard, etc.)  
Conversions  
Metric (SI) system  
Length, perimeter  
Area, volume  
Surface Area  
Direction, Location, Navigation  
Angles  
Circles (e.g., pi, radius, area)  
Mass (weight)  
Time, Temperature

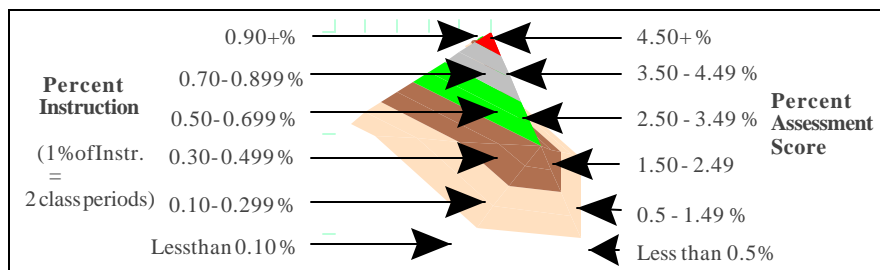
Grade 7 FCAT Assessment



Grade 6 FCAT Assessment



Use of meas. Instruments  
Theory (arbitrary, standard, etc.)  
Conversions  
Metric (SI) system  
Length, perimeter  
Area, volume  
Surface Area  
Direction, Location, Navigation  
Angles  
Circles (e.g., pi, radius, area)  
Mass (weight)  
Time, Temperature



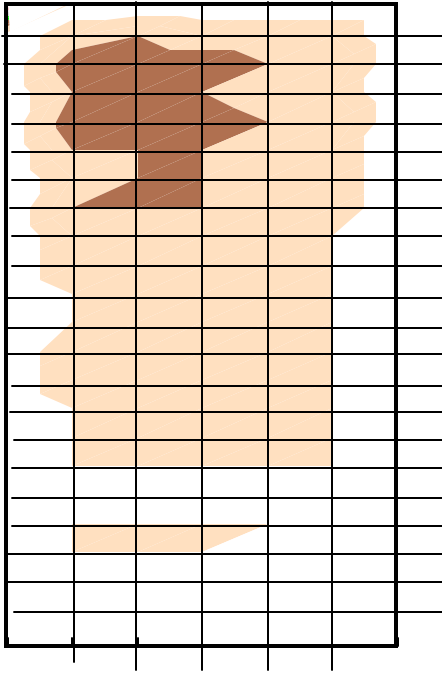
- B** Memorize
- C** Perform Procedures
- D** Communicate Understanding
- E** Conjecture/Prove
- F** Non-routine/Novel Problems

# Mathematics Content Map AA4

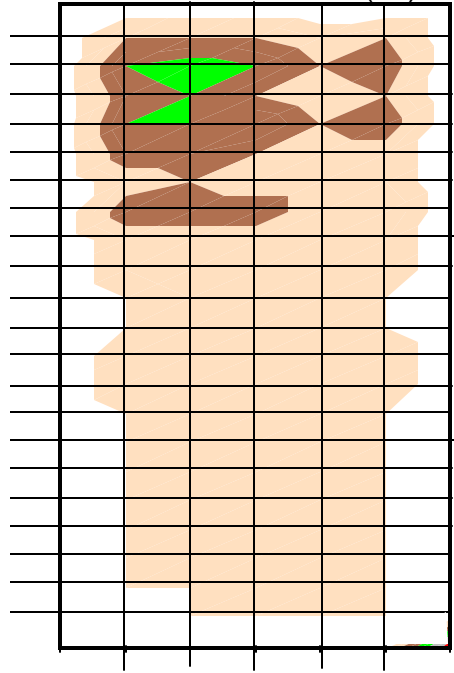
## Miami-DadePublicSchools

### Algebraic

Gr. 6-8 Teacher Instruction (80)

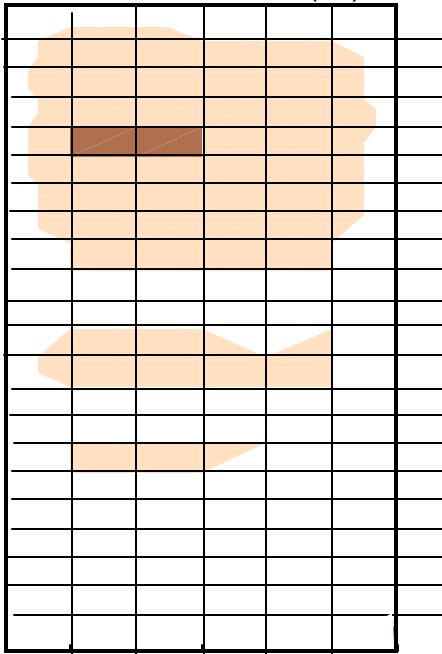


Grade 8 Instruction (23)



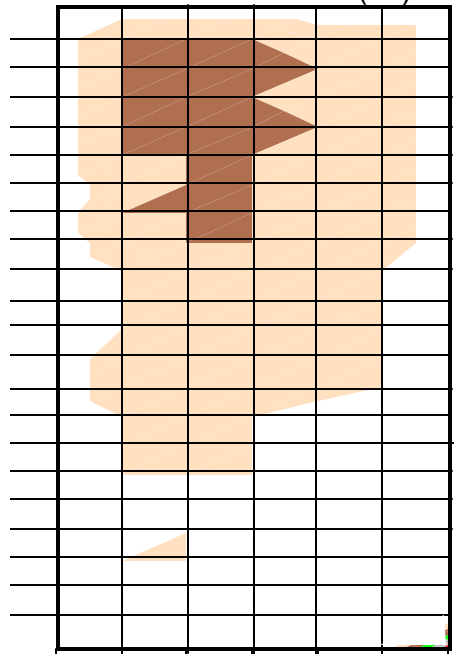
- Absolute value
- Use of variables
- Evaluation of formulas
- One-stepequations
- Coordinate Plane
- Patterns
- Multi-stepequations
- Inequalities
- Linear, non-linear relations
- Rate of change/slope/line
- Operations on polynomials
- Factoring
- Square roots & radicals
- Operations on radicals
- Rational
- Functions and relations
- Quadraticwquations
- Systems of equations
- Systems of inequalities
- Matrices, determinants
- Complexnumbers

Grade 6 Instruction (22)



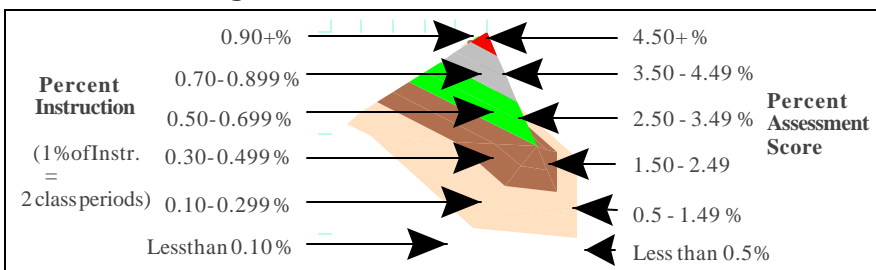
- Absolute value
- Use of variables
- Evaluation of formulas
- One-stepequations
- Coordinate Plane
- Patterns
- Multi-stepequations
- Inequalities
- Linear, non-linear relations
- Rate of change/slope/line
- Operations on polynomials
- Factoring
- Square roots & radicals
- Operations on radicals
- Rational
- Functions and relations
- Quadraticwquations
- Systems of equations
- Systems of inequalities
- Matrices, determinants
- Complexnumbers

Grade 7 Instruction (30)



**B C D E F**

**B C D E F**

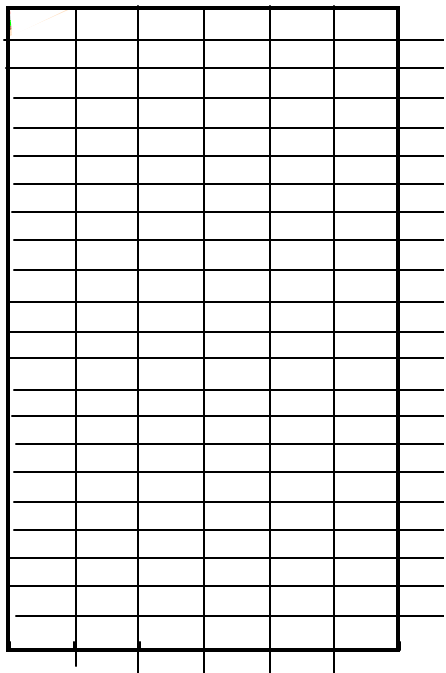


- B** Memorize
- C** Perform Procedures
- D** Communicate Understanding
- E** Conjecture/Prove
- F** Non-routine/Novel Problems

# Mathematics Content Map AA4

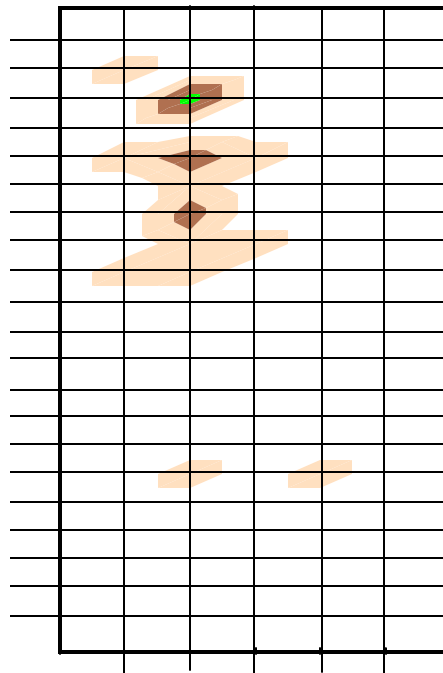
## Miami-DadePublicSchools

### Algebraic

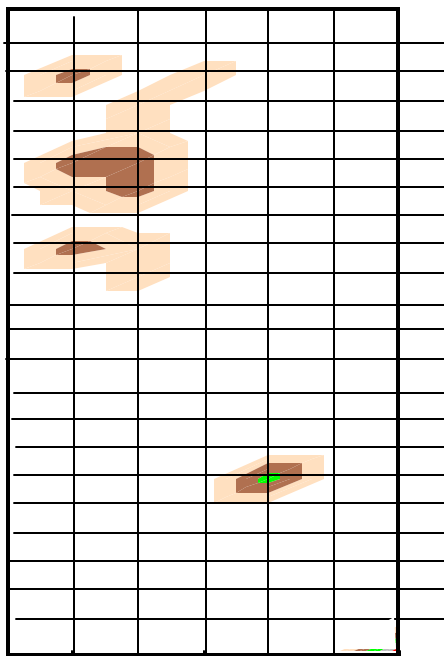


- Absolute value
- Use of variables
- Evaluation of formulas
- One-stepequations
- Coordinate Plane
- Patterns
- Multi-stepequations
- Inequalities
- Linear, non-linear relations
- Rate of change/slope/line
- Operations on polynomials
- Factoring
- Square roots & radicals
- Operations on radicals
- Rational
- Functions and relations
- Quadraticwquations
- Systems of equations
- Systems of inequalities
- Matrices, determinants
- Complexnumbers

Grade 8 FCAT Assessment

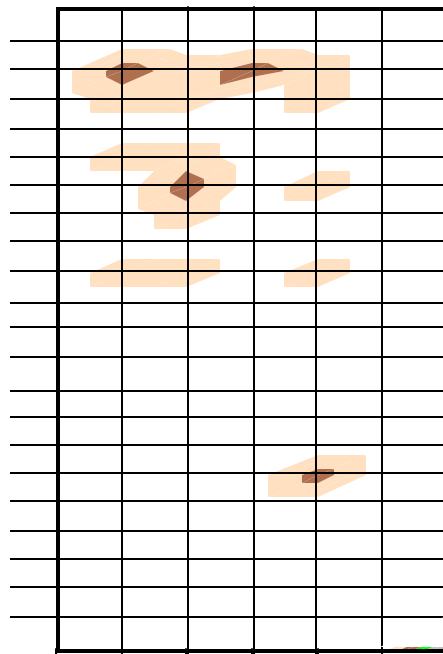


Grade 6 FCAT Assessment

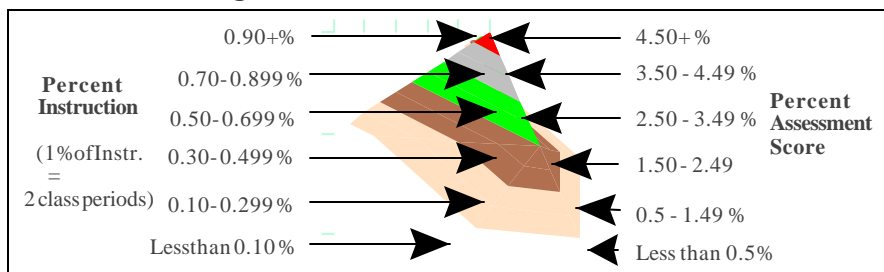


**B C D E F**

Grade 7 FCAT Assessment



**B C D E F**



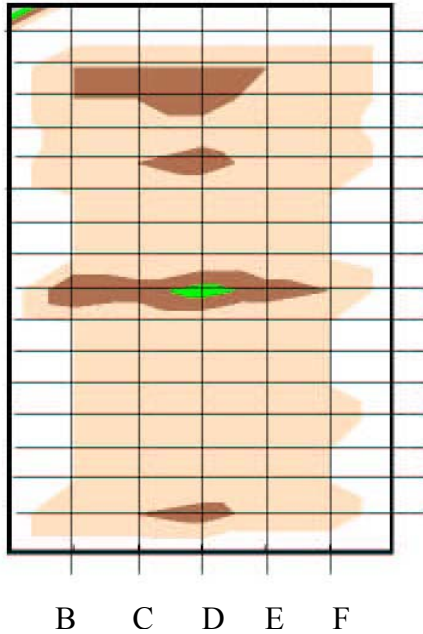
- B** Memorize
- C** Perform Procedures
- D** Communicate Understanding
- E** Conjecture/Prove
- F** Non-routine/Novel Problems



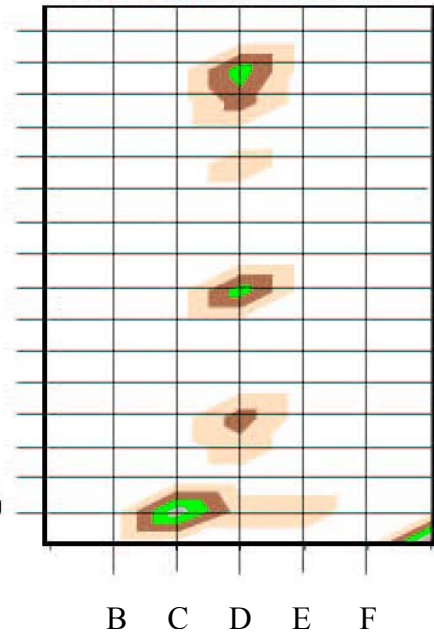
# Mathematics Content Map AA3

## Data Analysis, Probability, Statistics

Homestead Middle School  
Mathematics Instruction

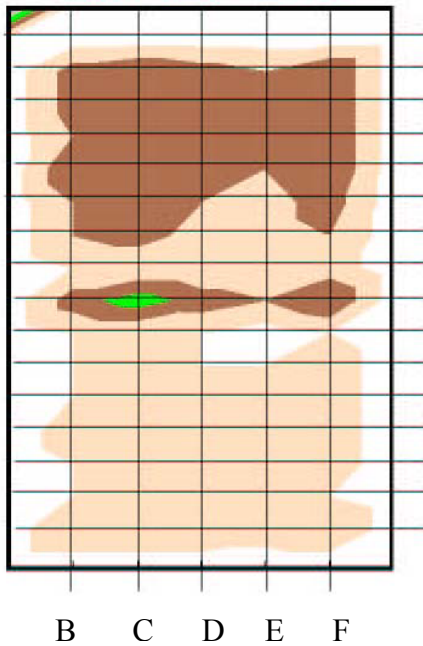


FCAT Grade 8 Assessment

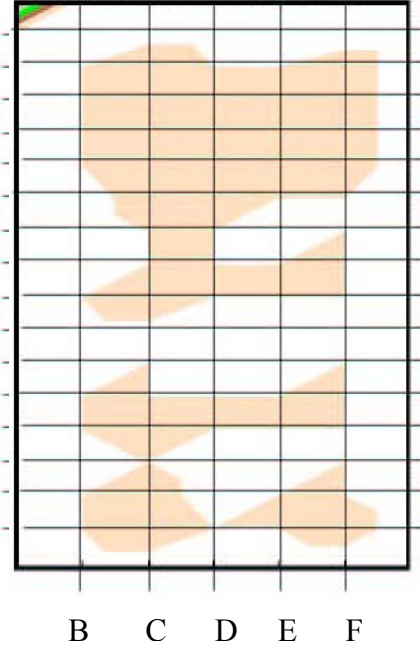


- DATA ANALYSIS
- Bar graph, histogram
- Pie charts, circle graphs
- Pictographs
- Line graphs
- Stem & Leaf Plots
- Scatter Plots
- Box Plots
- Mean, median, mode
- Line of best fit
- Quartiles, percentiles
- Sampling, sampling spaces
- Simple probability
- Compound probability
- Combinations & permutations
- Summarize data in a table or graph

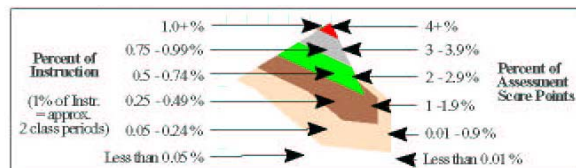
Richmond Heights Middle School  
Mathematics Instruction



West Miami Middle School  
Mathematics Instruction



- DATA ANALYSIS
- Bar graph, histogram
- Pie charts, circle graphs
- Pictographs
- Line graphs
- Stem & Leaf Plots
- Scatter Plots
- Box Plots
- Mean, median, mode
- Line of best fit
- Quartiles, percentiles
- Sampling, sampling spaces
- Simple probability
- Compound probability
- Combinations & permutations
- Summarize data in a table or graph



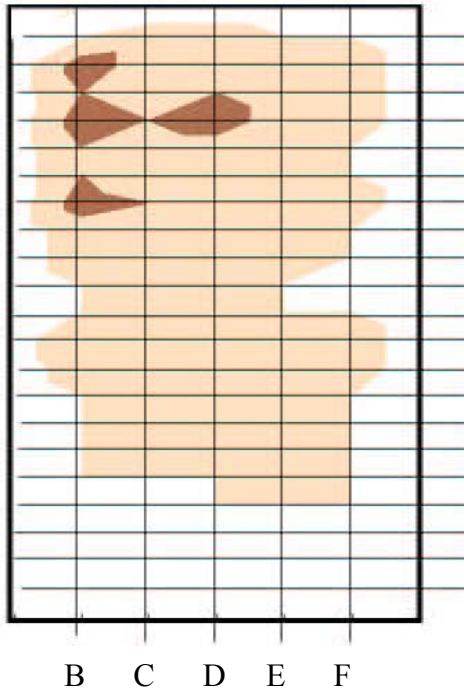
- B Memorize
- C Communicate Understanding
- D Perform Procedures
- E Conjecture/Prove
- F Non-routine/Novel Problems



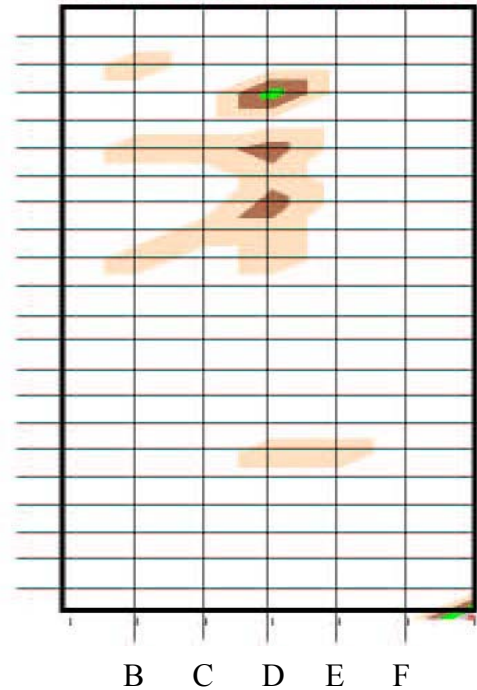
# Mathematics Content Map AA4

## Algebraic Concepts

Homestead Middle School  
Mathematics Instruction

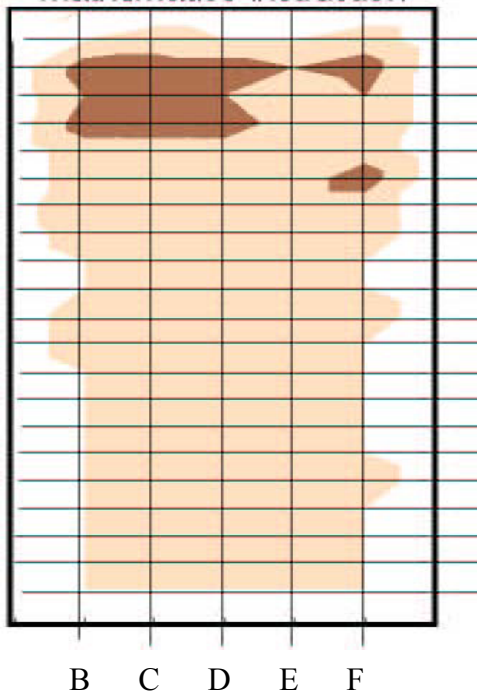


FCAT Grade 8 Assessment

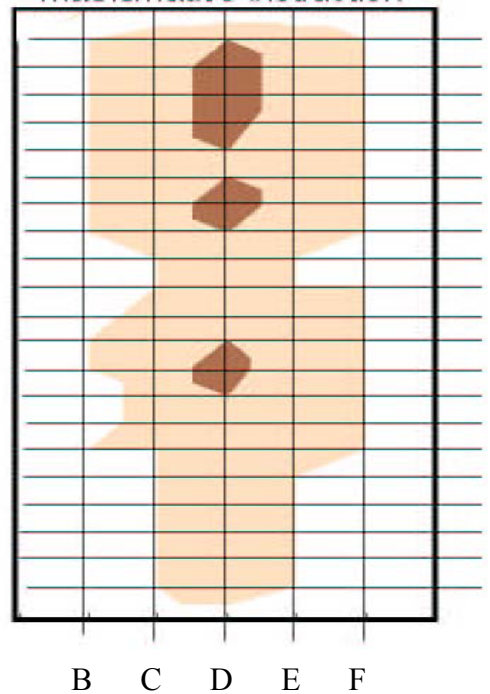


- Absolute value
- Use of variables
- Evaluation of formulas
- One-step equations
- Coordinate Plane
- Patterns
- Multi-step equations
- Inequalities
- Linear, non-linear relations
- Rate of change/slope/line
- Operations on polynomials
- Factoring
- Square roots & radicals
- Operations on radicals
- Rational expressions
- Functions and relations
- Quadratic equations
- Systems of equations
- Systems of inequalities
- Matrices, determinants
- Complex numbers

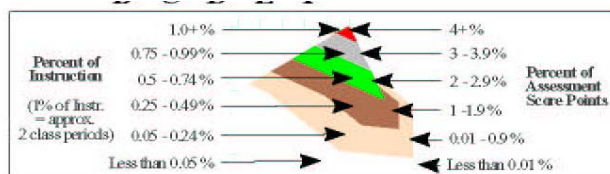
Richmond Heights Middle School  
Mathematics Instruction



West Miami Middle School  
Mathematics Instruction

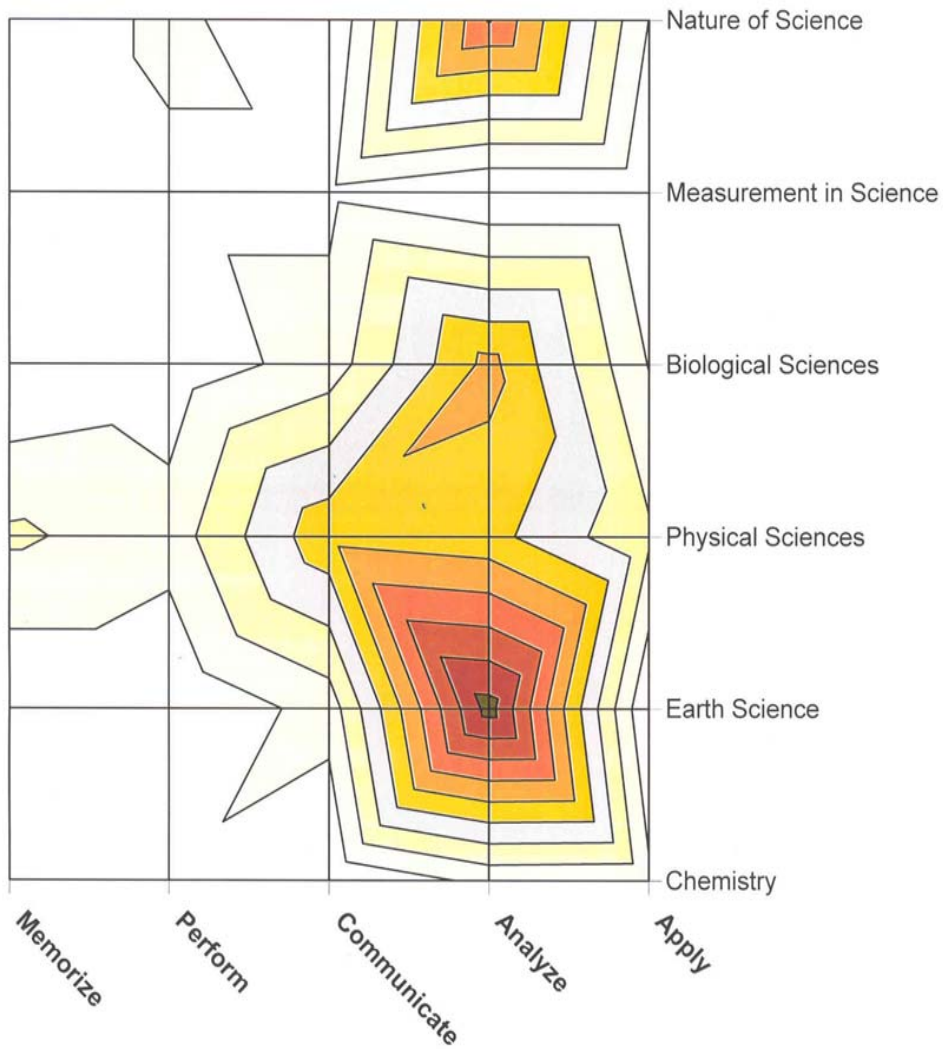


- Absolute value
- Use of variables
- Evaluation of formulas
- One-step equations
- Coordinate Plane
- Patterns
- Multi-step equations
- Inequalities
- Linear, non-linear relations
- Rate of change/slope/line
- Operations on polynomials
- Factoring
- Square roots & radicals
- Operations on radicals
- Rational expressions
- Functions and relations
- Quadratic equations
- Systems of equations
- Systems of inequalities
- Matrices, determinants
- Complex numbers

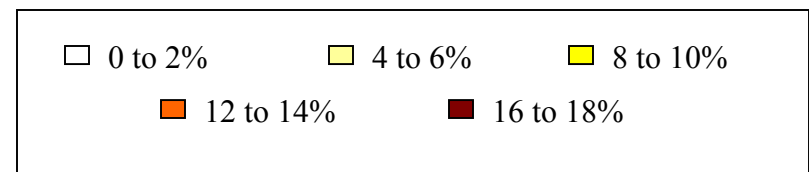
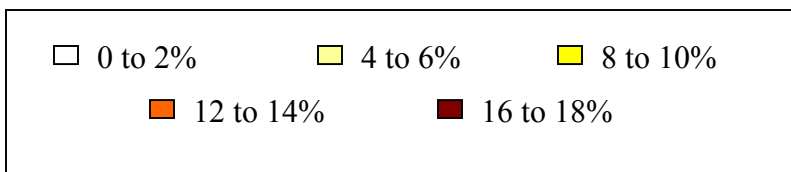
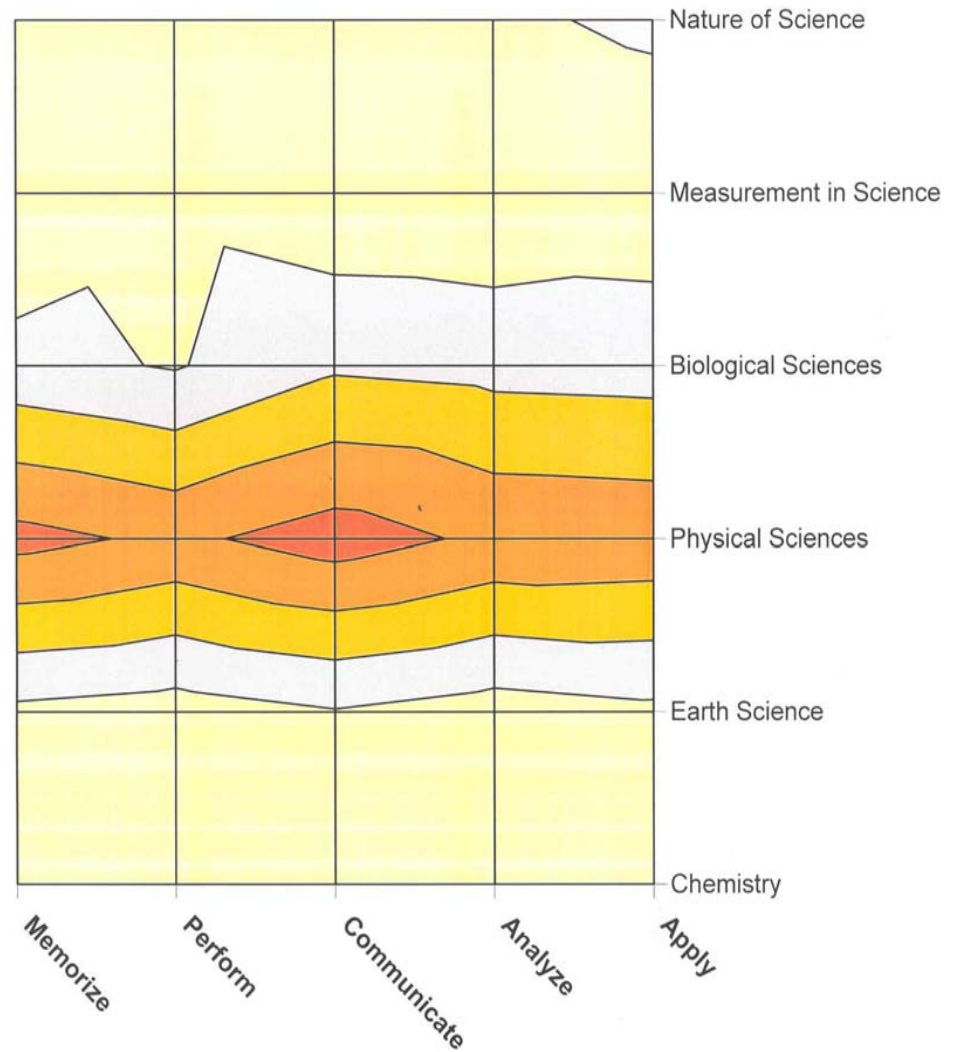


- B** Memorize
- C** Communicate Understanding
- D** Perform Procedures
- E** Conjecture/Prove
- F** Non-routine/Novel Problems

## North Carolina Grade 8 Science Standards Content Coded: Percent of Standards

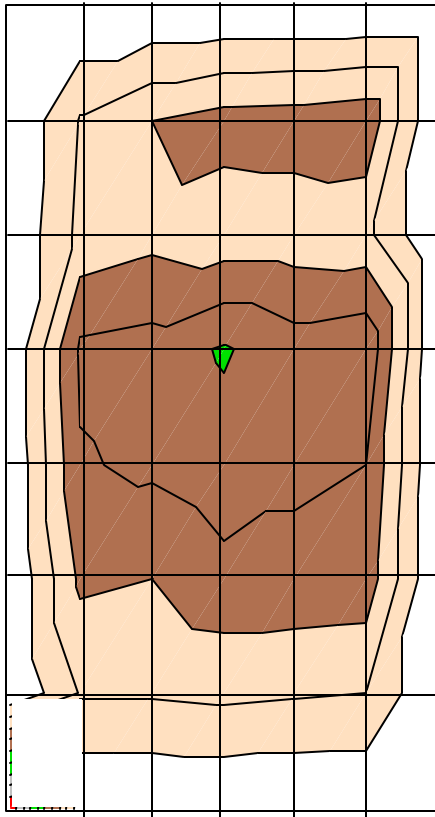


## North Carolina Grade 8 Science Instruction Teacher Survey: Percent of Time



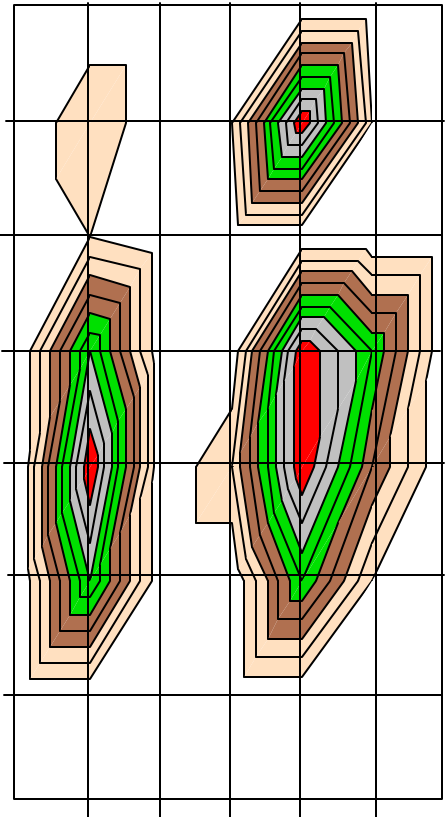
**Chart T**  
**Science Curriculum Content**  
**Winston-Salem/Forsyth County Schools**  
 Instruction / Assessment

**Middle School Teacher Reports (59)**

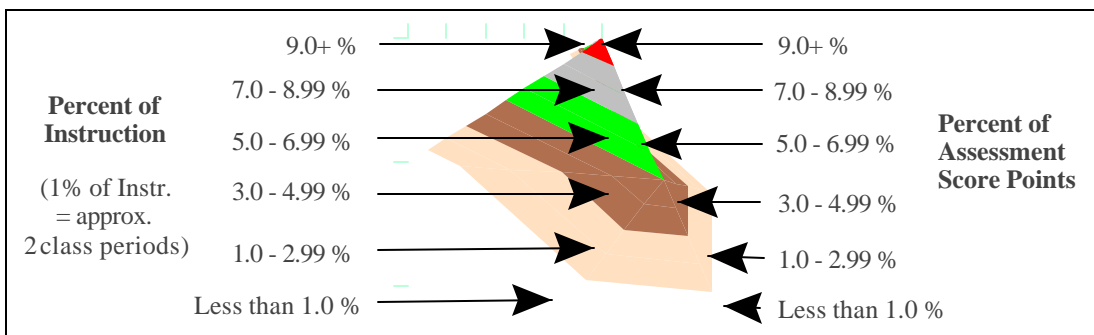


Memorize  
 Perform Procedures  
 Communicate Understanding  
 Analyze Information  
 Apply/Integrate

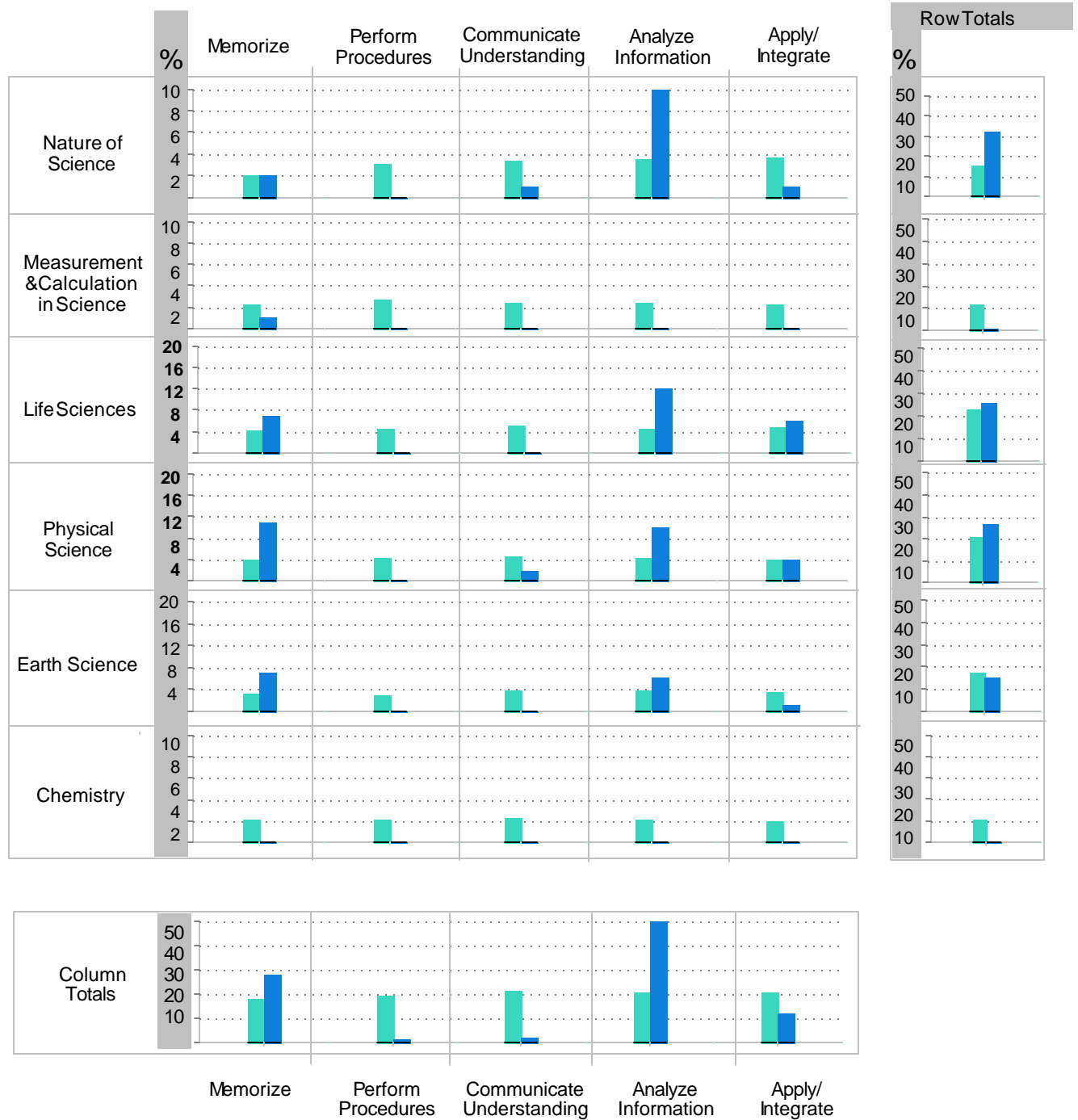
**SAT-9 Science Assessment**



Memorize  
 Perform Procedures  
 Communicate Understanding  
 Analyze Information  
 Apply/Integrate



**Chart U**  
**Science Curriculum Content**  
**Winston-Salem/Forsyth County Schools**  
 Instruction / Assessment



<span style="color: teal;">■</span>	Middle School Teacher Instruction
<span style="color: blue;">■</span>	SAT - 9 Science Assessment

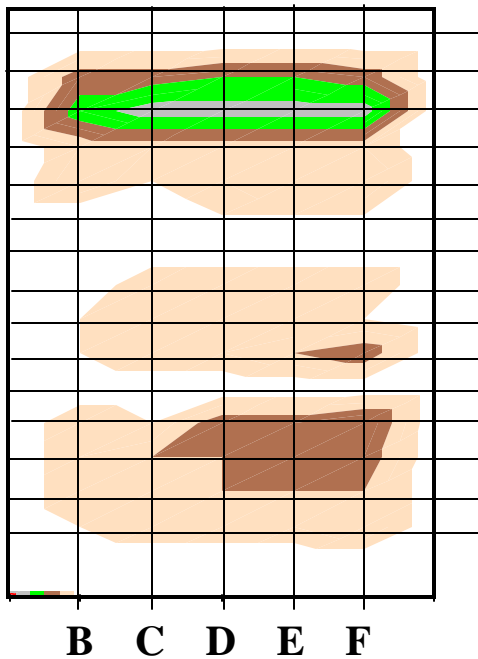


# Science Content Map AA1

## Winston-Salem/Forsyth County Schools

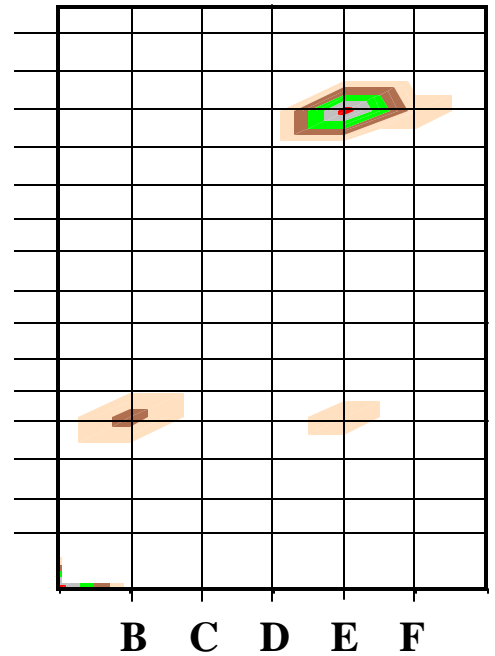
### Scientific Knowing

Grade 6 Teachers (19)

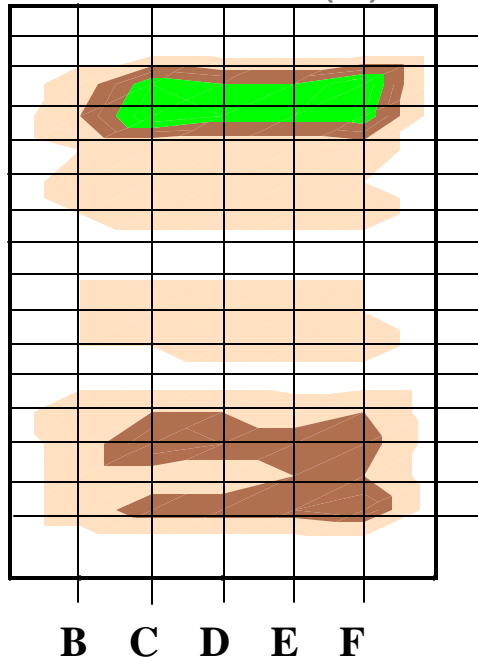


**NATURE OF SCIENCE**  
 Scientific habits of mind  
 Scientific  
 Issues of diversity & culture  
 History of scientific innovations  
 Ethical issues in science  
**SCIENCE & TECHNOLOGY**  
 Design a solution or product  
 Scientific inquiry & technology  
 Technology  
**SCI., HLTH. & ENVIRONMENT**  
 Personal health & nutrition  
 Environmental  
 Resource,  
 Natural & Human hazards

SAT-9 Science Assessment

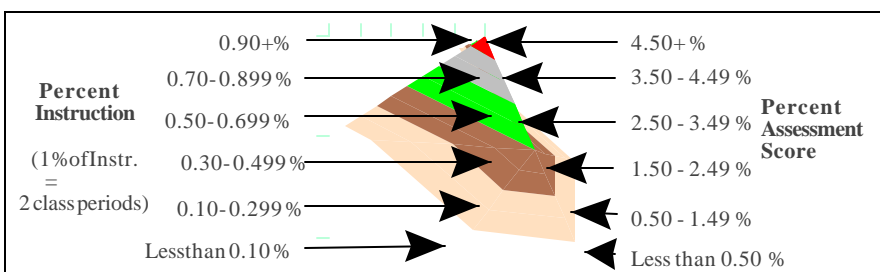
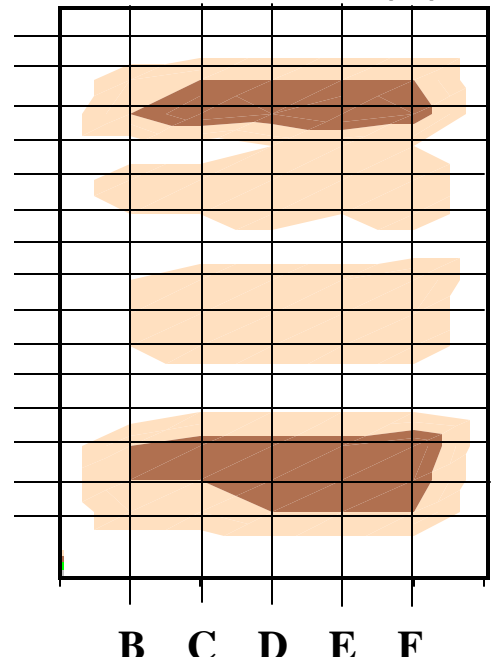


Grade 7 Teachers (18)



**NATURE OF SCIENCE**  
 Scientific habits of mind  
 Scientific method  
 Issues of diversity & culture  
 History of scientific innovations  
 Ethical issues in science  
**SCIENCE & TECHNOLOGY**  
 Design a solution or product  
 Scientific inquiry & technology  
 Technology tradeoffs  
**SCI. HLTH. & ENVIRONMENT**  
 Personal health & nutrition  
 Environmental health  
 Resource, conservation  
 Natural & Human hazards

Grade 8 Teachers (16)

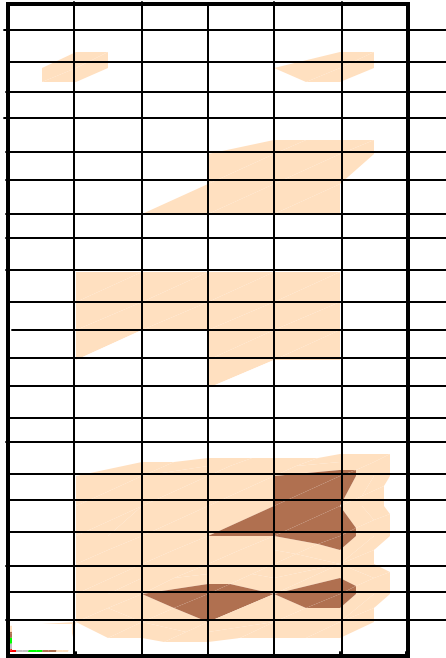


- B** Memorize
- C** Perform Procedures
- D** Communicate Understanding
- E** Analyze Information
- F** Apply/Integrate

# Science Content Map AA5

## Winston-Salem/Forsyth County Schools

Grade 6 Teachers (19)

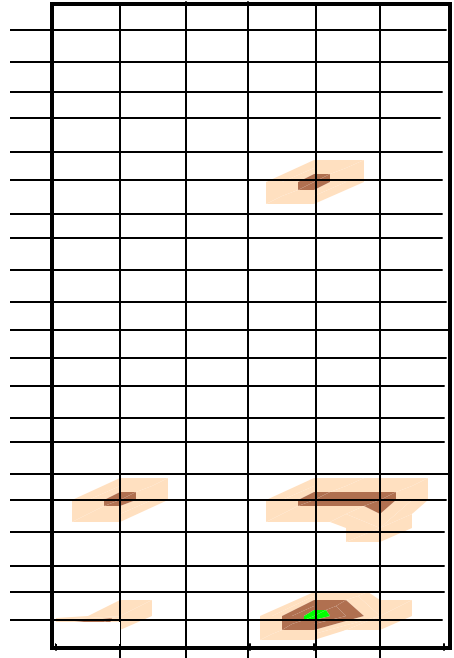


**B C D E F**

### Life Sciences (3)

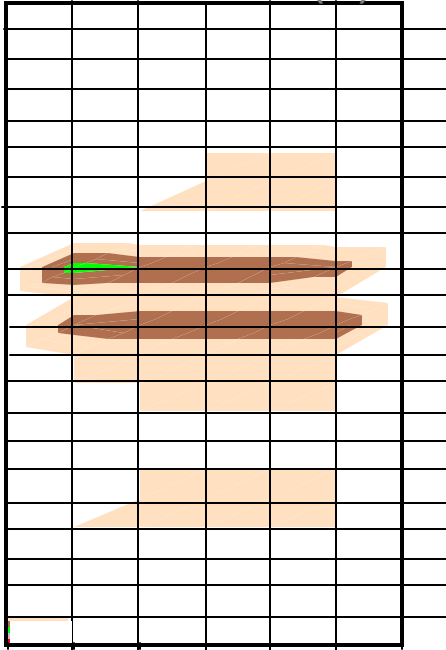
- EVOLUTION
  - Evidence for evolution
  - Modern Evolutionary Theory
  - Human Evolution
  - Classification
  - Natural Selection
  - Adaptation & Variation
- REPRODUCTION
  - Mitotic/Meiotic Cell division
  - Asexual reproduction
  - Inherited traits
  - Reprod. In Plants
  - Reprod. In Animals
  - Reprod. In Humans
- ECOLOGY
  - Food chains/webs
  - Competition & Cooperation
  - Energy Flow Relationships
  - Ecological Succession
  - Ecosystems
  - Populations

SAT-9 Science Assessment



**B C D E F**

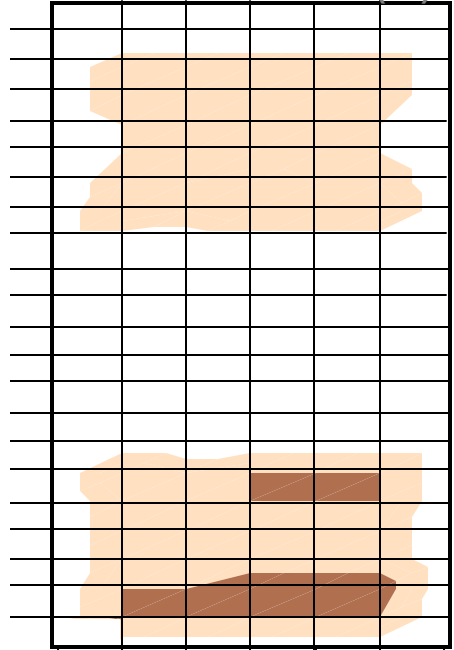
Grade 7 Teachers (18)



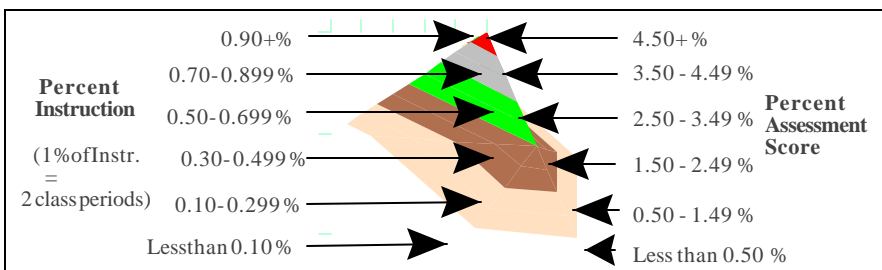
**B C D E F**

- EVOLUTION
  - Evidence for evolution
  - Modern Evolutionary Theory
  - Human Evolution
  - Classification
  - Natural Selection
  - Adaptation & Variation
- REPRODUCTION
  - Mitotic/Meiotic Cell division
  - Asexual reproduction
  - Inherited traits
  - Reprod. In Plants
  - Reprod. In Animals
  - Reprod. In Humans
- ECOLOGY
  - Food chains/webs
  - Competition & Cooperation
  - Energy Flow Relationships
  - Ecological Succession
  - Ecosystems
  - Populations

Grade 8 Teachers (16)



**B C D E F**



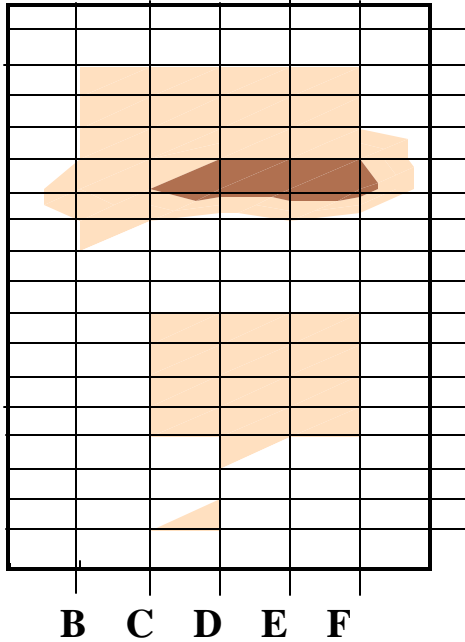
- B** Memorize
- C** Perform Procedures
- D** Communicate Understanding
- E** Analyze Information
- F** Apply/Integrate

# Science Content Map AA6

## Winston-Salem/Forsyth County Schools

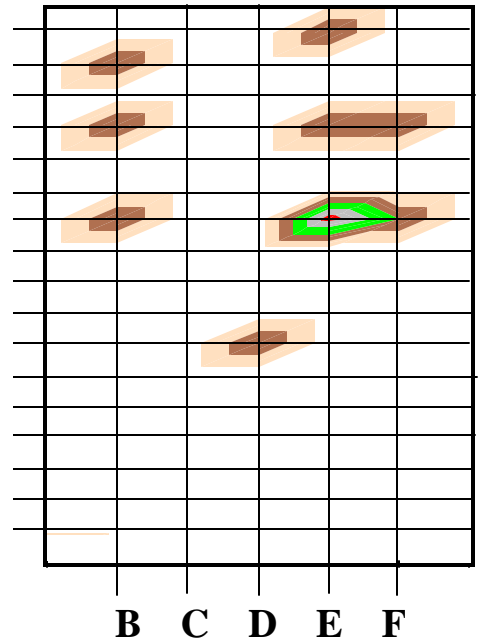
### Physical Sciences(1)

**Grade 6 Teacher (19)**

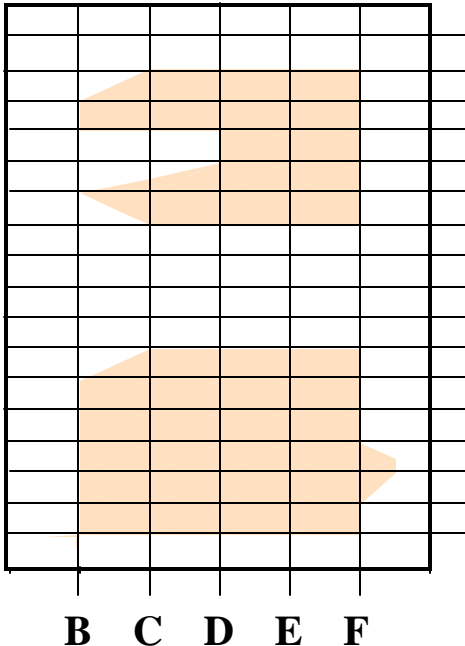


- ENERGY
- Potential
- Kinetic
- Work & Force
- Conservation of Energy
- Heat energy & transfer
- Mechanical Energy & Machines
- Nuclear Energy
- MOTION & FORCES
- Velocity
- Mass
- Newton's First Law
- Newton's Second Law
- Newton's Third Law
- Forces
- Friction
- Universal Gravitation

**SAT-9 Science Assessment**

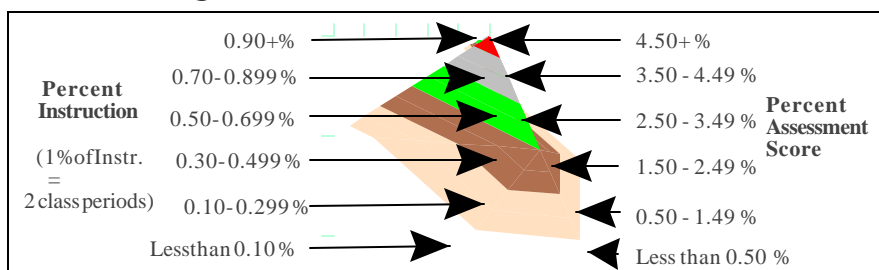
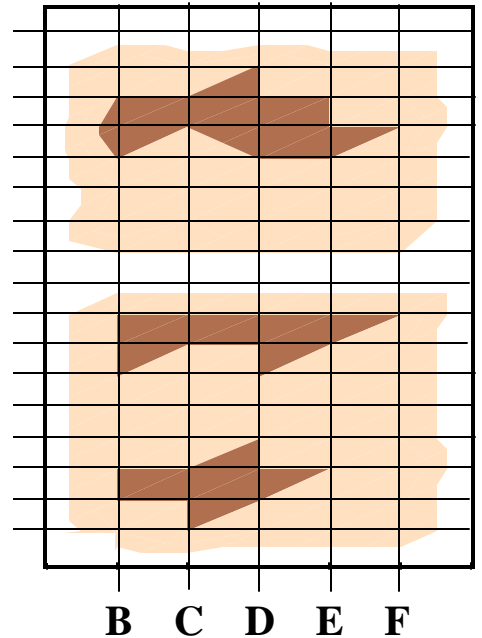


**Grade 7 Teachers (18)**



- ENERGY
- Potential Energy
- Kinetic Energy
- Work & Force
- Conservation of Energy
- Heat energy & transfer
- Mechanical Energy & Machines
- Nuclear Energy
- MOTION & FORCES
- Velocity
- Mass
- Newton's First Law
- Newton's Second Law
- Newton's Third Law
- Forces
- Friction
- Universal Gravitation

**Grade 8 Teachers (16)**



- B** Memorize
- C** Perform Procedures
- D** Communicate Understanding
- E** Analyze Information
- F** Apply/Integrate

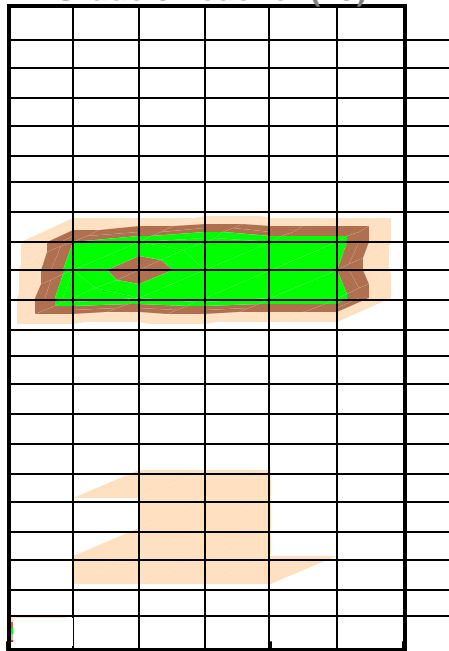


# Science Content Map AA7

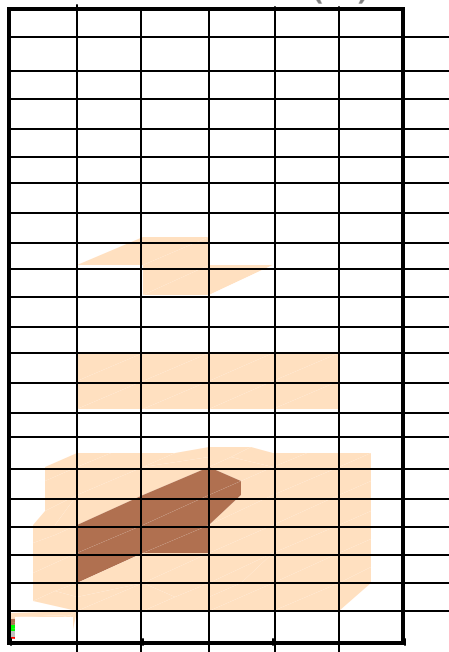
## Winston-Salem/Forsyth County Schools

### Physical Sciences(2)

Grade 6 Teacher (19)

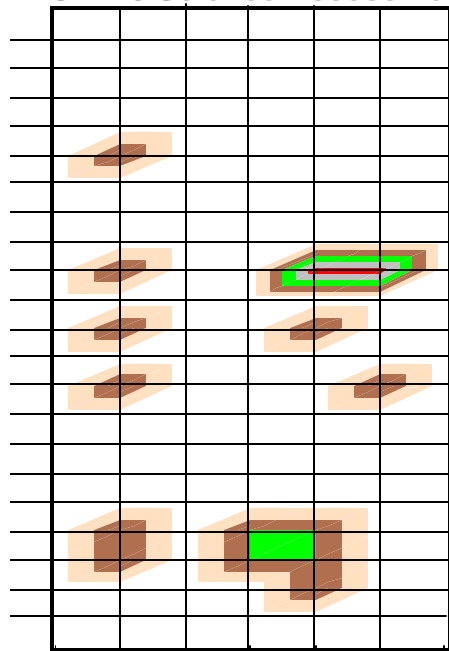


**B C D E F**  
Grade 7 Teachers (18)

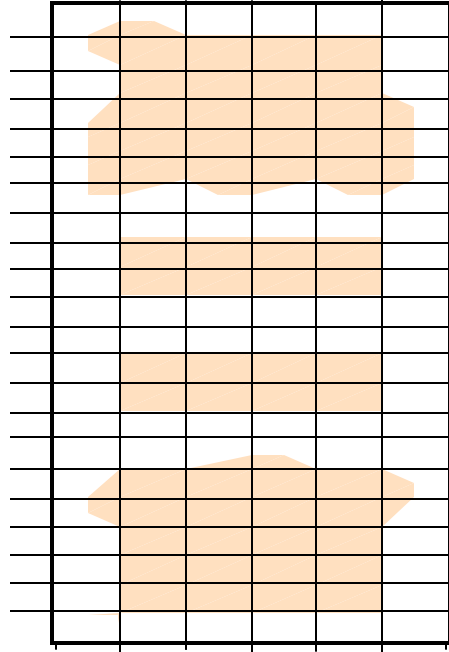


**B C D E F**

SAT-9 Science Assessment



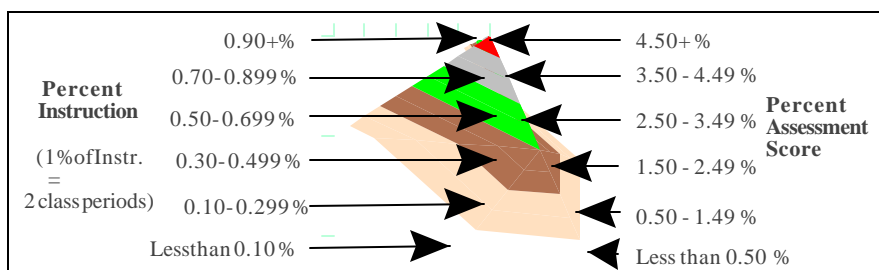
**B C D E F**  
Grade 8 Teachers (16)



**B C D E F**

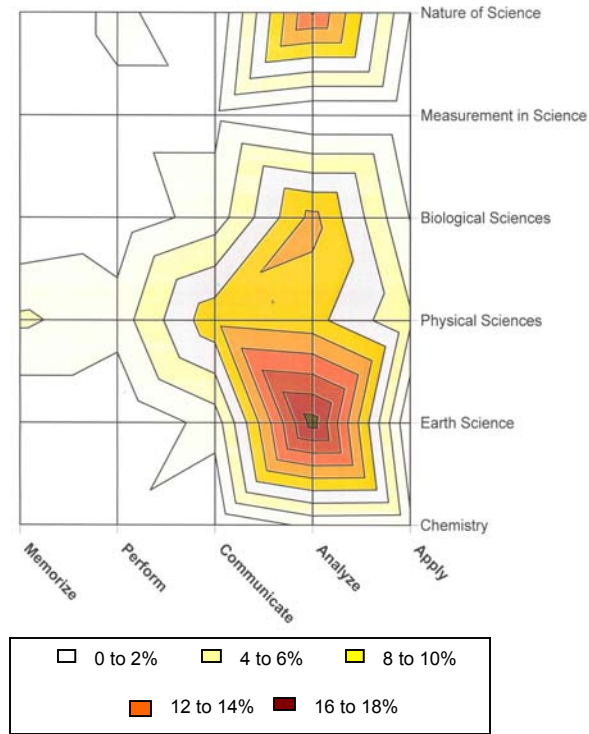
- ELECTRICITY
  - Static Electricity
  - Coulomb's
  - Electric fields
  - Current electricity
  - Series & Parallel Circuits
  - Magnetism
- CHAR. & BEH. OF WAVES
  - Light
  - Electromagnetic
  - Sound
- KINETICS
  - Molecular Motion
  - Pressure
  - Kinetics and temperature
- PROPERTIES OF MATTER
  - Characteristics & composition
  - States of matter
  - Physical & Chemical Changes
  - Physical & Chemical Properties
  - Isotope, Atom. No. & Mass
  - Atomic Theory

- ELECTRICITY
  - Static Electricity
  - Coulomb's
  - Electric fields
  - Current electricity
  - Series & Parallel Circuits
  - Magnetism
- CHAR. & BEH. OF WAVES
  - Light
  - Electromagnetic
  - Sound
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  - Atomic Theory

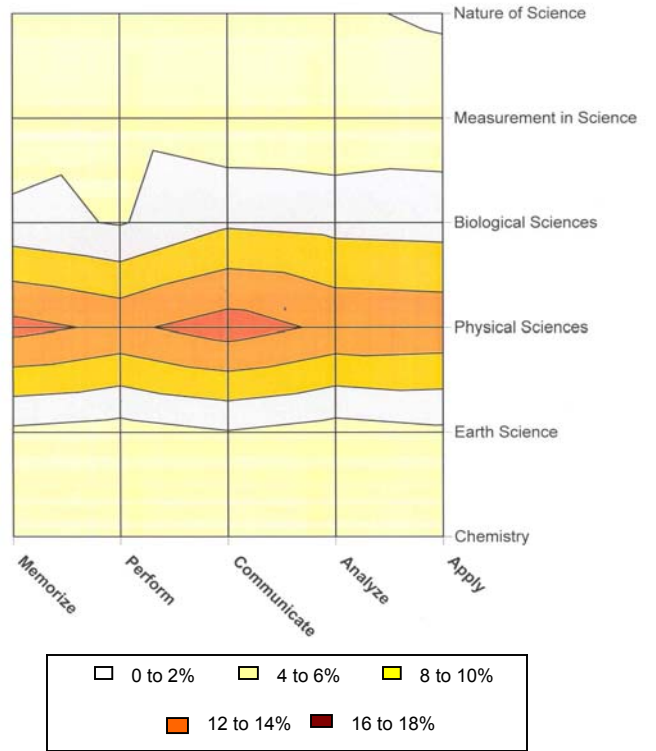


- B** Memorize
- C** Perform Procedures
- D** Communicate Understanding
- E** Analyze Information
- F** Apply/Integrate

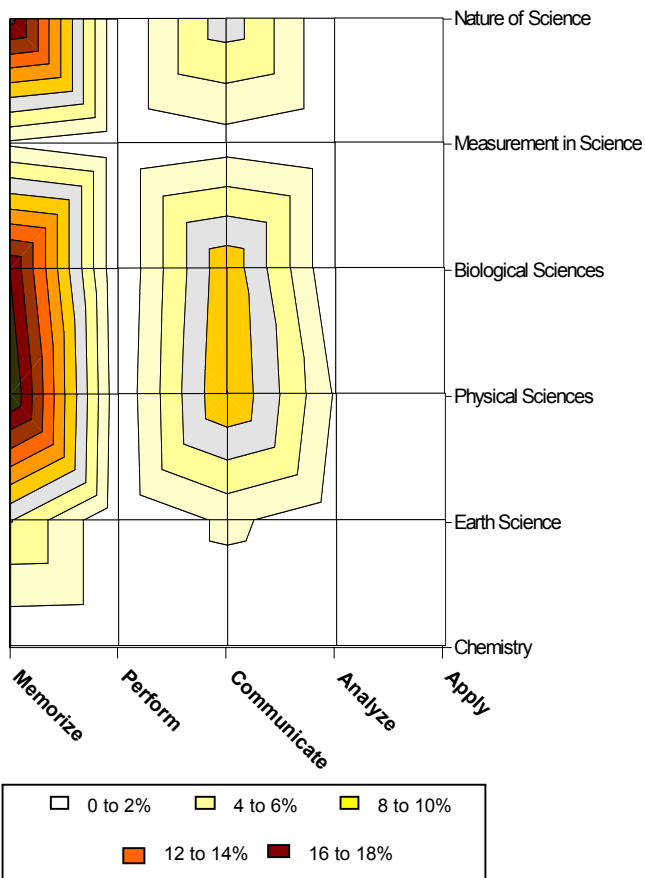
**North Carolina Grade 8 Science Standards  
Content Coded: Percent of Standards**



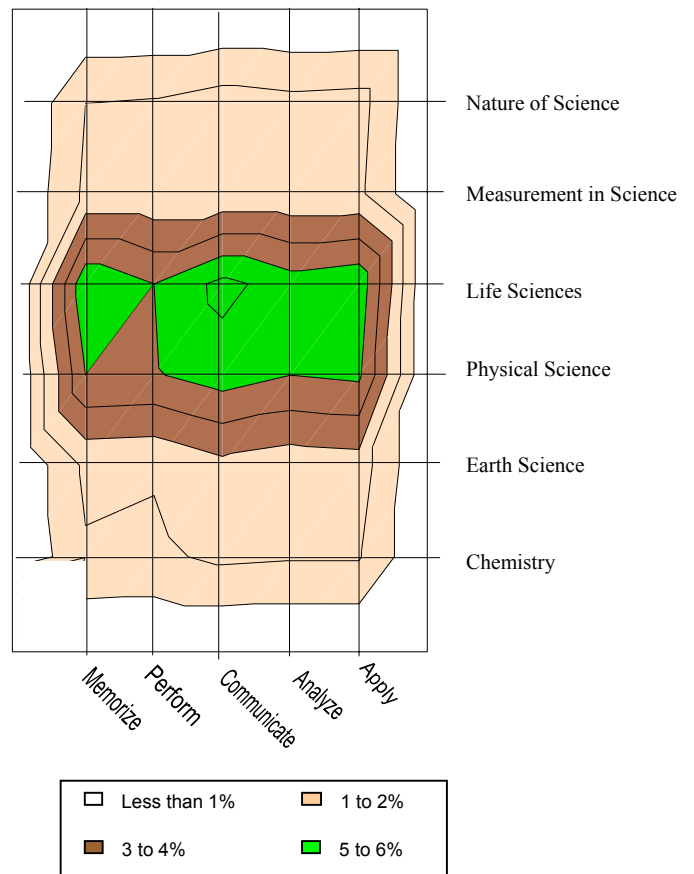
**North Carolina Grade 8 Science Instruction  
Teacher Survey: Percent of Time**



**Florida Grade 8 Science Standards**

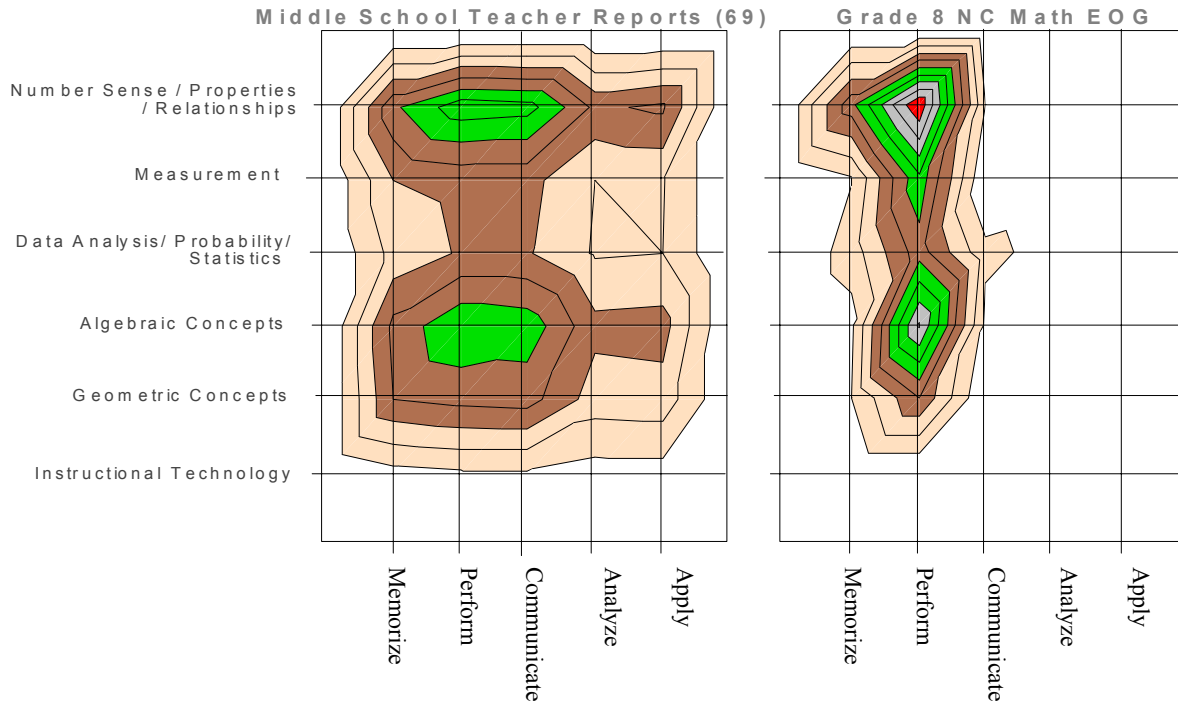


**Miami-Dade Grade 6-8  
Science Instruction**

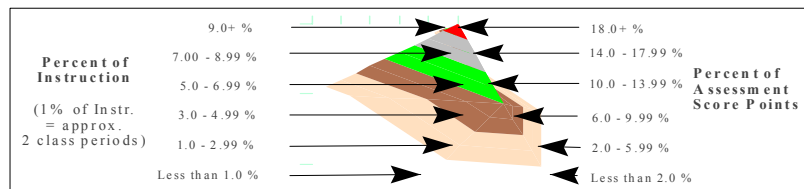
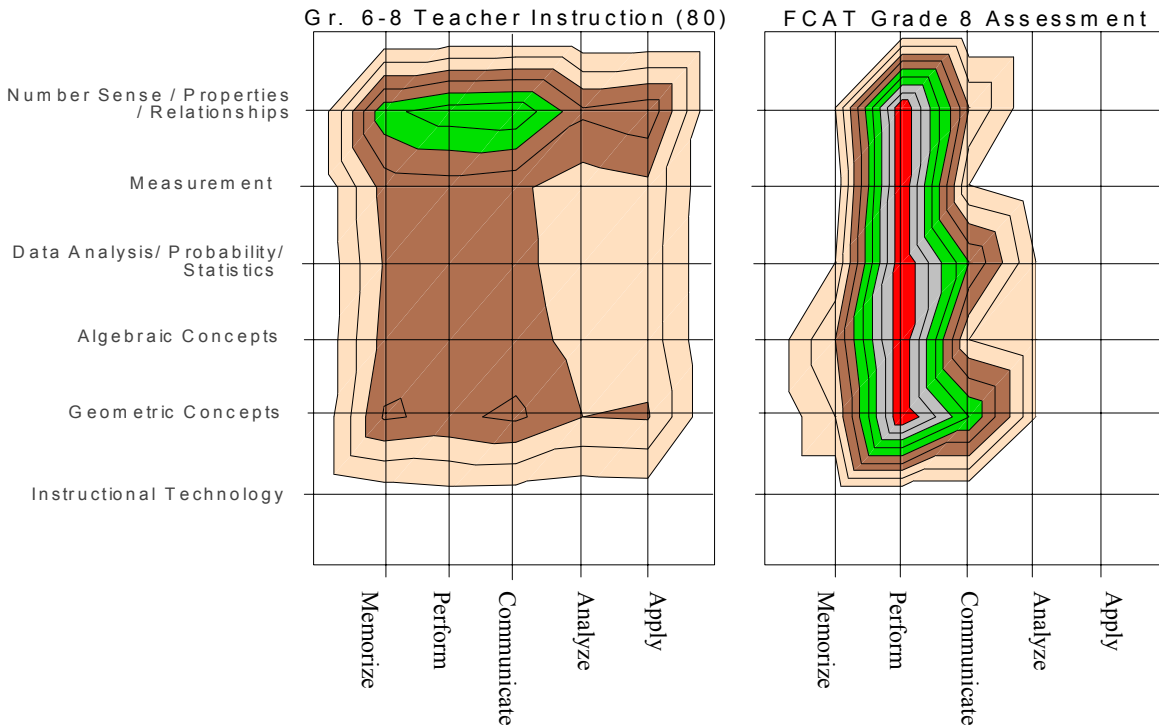


# Chart T Mathematics Curriculum Content

## North Carolina Schools Instruction / Assessment



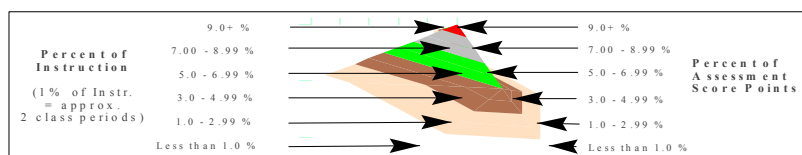
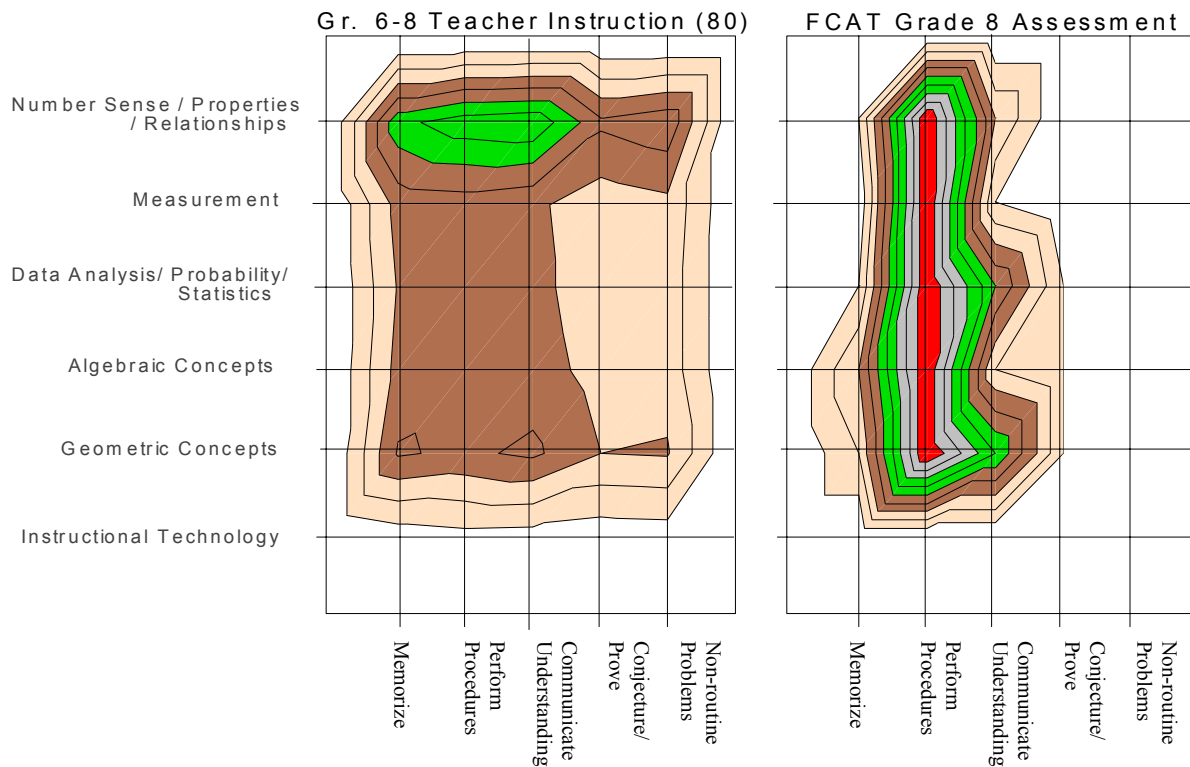
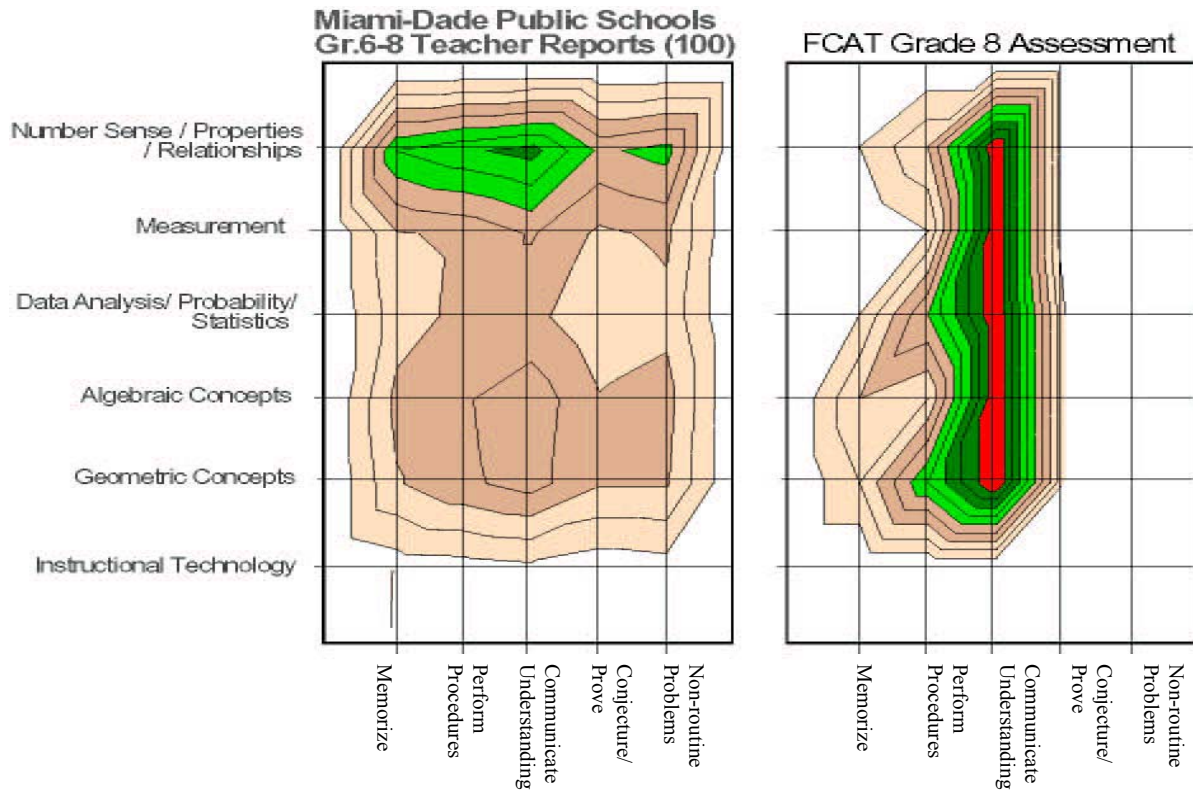
## Miami Schools Instruction / Assessment



# Chart T

## Mathematics Curriculum Content

### Miami-Dade Public Schools Instruction / Assessment Year 1 and Year 3



# Chart T

## Science Curriculum Content

### Miami-Dade Public Schools

#### Instruction / Assessment

#### Year 1 and Year 3

