



## HeartBeeps Standards

### 1st-Grade Math (in English or Spanish)

#### Objective 1 - Beginning Concepts

- 1.1 Counting to 10
- 1.2 Base ten
- 1.3 Addition (modeling to 10)
- 1.4 Addition (facts to 10)
- 1.5 Subtr. (modeling to 10)
- 1.6 Subtr. (facts to 10)

#### Objective 2 - Number Concepts

- 2.1 Translate numbers
- 2.2 Base ten
- 2.3 Least to greatest (1 to 10)
- 2.4 Greatest to least (1 to 10)
- 2.5  $<$ ,  $>$ ,  $=$  (1 to 10)
- 2.6 Least to greatest (11 to 99)
- 2.7 Greatest to least (11 to 99)
- 2.8  $<$ ,  $>$ ,  $=$  (11 to 99)
- 2.9 Fractions
- 2.10 Coins

#### Objective 3 - Math Relations

- 3.1 Picture patterns
- 3.2 Number patterns
- 3.3 Fact families

#### Objective 4 - Geometric Concepts

- 4.1 Classify objects
- 4.2 Geometric figures
- 4.3 Similarity/Congruence
- 4.4 Creating shapes
- 4.5 Number lines

#### Objective 5 - Measurement Concepts

- 5.1 Classify measurement objects
- 5.2 Length
- 5.3 Weight, capacity, temp.
- 5.4 Time

#### Objective 6 - Statistics

- 6.1 Data
- 6.2 Solution graphs

#### Objective 7 - Addition

- 7.1 Facts to 10, modeling
- 7.2 Facts to 10, numerical
- 7.3 Facts to 18, modeling
- 7.4 Facts to 18, numerical
- 7.5 Word problems

#### Objective 8 - Subtraction

- 8.1 Facts to 10, modeling
- 8.2 Facts to 10, numerical
- 8.3 Facts to 18, modeling
- 8.4 Facts to 18, numerical
- 8.5 Word problems

#### Objective 9 - Estimation

- 9.1 Estimation

#### Objective 10 - Solution Strategies

- 10.1 Determine strategies

#### Objective 11 - Math Representation

- 11.1 Solution sentences
- 11.2 Charts and graphs

#### Objective 12 - Evaluation

- 12.1 Evaluation

### 1st-Grade Reading (in English or Spanish)

#### Word Meaning

- Structural clues
- High-frequency irregular
- Context clues

#### Supporting Ideas

- Facts and details
- Sequential order
- Setting

#### Summarization

- Main idea

#### Relationships and Outcomes

- Predicting outcomes
- Relationships

#### Inferences and Generalizations

- Characters
- Cause and effect
- Conclusions
- Graphics

#### Devices

- Fact and fantasy
- Author's purpose

#### Pre-reading Skills

- Beginning sounds
- Blends
- Rhyming words

### 1st-Grade Writing (in English only)

#### Sentence Construction

- Complete/incomplete sentences

#### Parts of Speech

- Nouns and pronouns
- Verbs
- Adjectives

#### Spelling, Caps, and Punct.

- Sight-word spelling
- Caps for names and beginning of sentences
- Question mark, exclamation point, period

#### Usage

- Simple nouns and verbs



## HeartBeeps Standards

### 2nd-Grade Math (in English or Spanish)

#### Objective 1 - Number Concepts

- 1.1 Base ten
- 1.2 Place value
- 1.3 Comparing numbers
- 1.4 Charts and tables
- 1.5 Least to greatest (to 999)
- 1.6 Greatest to least (to 999)
- 1.7 Fractions

#### Objective 2 - Algebraic Concepts

- 2.1 Picture patterns
- 2.2 Number patterns
- 2.3 Fact patterns/families
- 2.4 Related pairs

#### Objective 3 - Geometric Concepts

- 3.1 Geometric figures
- 3.2 Classify objects
- 3.3 Similarity/Congruence
- 3.4 Symmetry
- 3.5 Number lines

#### Objective 4 - Measurement Concepts

- 4.1 Classify measurement objects
- 4.2 Length
- 4.3 Weight/Capacity
- 4.4 Temperature
- 4.5 Time

#### Objective 5 - Probability and Statistics

- 5.1 Create graphs
- 5.2 Solution graphs
- 5.3 Probability

#### Objective 6 - Strategies and Processes

- 6.1 Determine strategies
- 6.2 Multiple operations
- 6.3 Reasonableness

#### Objective 7 - Math Representation

- 7.1 Solution sentences
- 7.2 Models
- 7.3 Charts and graphs

#### Objective 8 - Computational Math

- 8.1 Addition, facts
- 8.2 Addition, 3 addends
- 8.3 Addition, double digit
- 8.4 Addition, coins
- 8.5 Subtraction, facts
- 8.6 Subtraction, double digit
- 8.7 Subtraction, coins
- 8.8 Multiplication, modeling
- 8.9 Division, modeling
- 8.10 Estimation I
- 8.11 Estimation II

### 2nd-Grade Reading (in English or Spanish)

#### Objective 1 - Word Meaning

- 1.1 Structural clues
- 1.2 Context clues

#### Objective 2 - Supporting Ideas

- 2.1 Facts and details
- 2.2 Sequential order
- 2.3 Recognize setting
- 2.4 Use/interpret graphics

#### Objective 3 - Summarization

- 3.1 Main idea
- 3.2 Summarizing

#### Objective 4 - Relationships and Outcomes

- 4.1 Cause and effect
- 4.2 Predicting outcomes

#### Objective 5 - Inferences and Generalizations

- 5.1 Characters
- 5.2 Conclusions

#### Objective 6 - Devices

- 6.1 Fact and fantasy
- 6.2 Fact and opinion
- 6.3 Purpose

### 2nd-Grade Writing (in English only)

#### Objective 1 - Parts of speech

- 1.1 Nouns
- 1.2 Pronouns
- 1.3 Adjectives
- 1.4 Verbs

#### Objective 2 - Sentences

- 2.1 Complete sentences
- 2.2 Incomplete sentences

#### Objective 3 - Sentence Parts

- 3.1 Simple subject
- 3.2 Complete subject
- 3.3 Simple predicate
- 3.4 Complete predicate

#### Objective 4 - Sentence Types

- 4.1 Classify sentences
- 4.2 Identify sentences

#### Objective 5 - Synonyms and Antonyms

- 5.1 Synonyms
- 5.2 Antonyms

#### Objective 6 - Sentence Construction

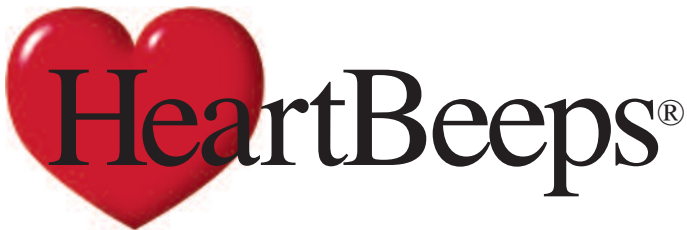
- 6.1 Sentence construction

#### Objective 7 - Usage

- 7.1 Usage

#### Objective 8 - Spelling, Caps, Punctuation

- 8.1 Spelling, caps, and punctuation



## HeartBeeps Standards

### 3rd-Grade Math (in English only)

#### Objective 1 Number Concepts

- 1.1 Place value
- 1.2 Equivalent whole numbers
- 1.3 Translate whole numbers
- 1.4 Compare whole numbers
- 1.5 Order whole numbers
- 1.6 Money values, models
- 1.7 Compare money values
- 1.8 Fractions, models
- 1.9 Compare fractions
- 1.10 Describe fractions
- 1.11 Equivalent fractions
- 1.12 Rounding

#### Objective 2 Algebraic Concepts

- 2.1 Problem solving w/patterns
- 2.2 Multiplication fact patterns
- 2.3 Fact families
- 2.4 Create tables of paired data
- 2.5 Related pairs
- 2.6 Identify the rule
- 2.7 Number sentences, add/sub
- 2.8 Number sentences, mult/div
- 2.9 Finding unknown numbers
- 2.10 Multiples of 10 and 100
- 2.11 Relate expressions
- 2.12 Change over time

#### Objective 3 Geometric Concepts

- 3.1 Lines and points
- 3.2 Identify figures and attributes
- 3.3 Congruent figures
- 3.4 Symmetrical figures
- 3.5 Lines of symmetry
- 3.6 Number lines
- 3.7 Flips, slides, turns
- 3.8 Ordered pairs

#### Objective 4 Measurement Concepts

- 4.1 Units of measure
- 4.2 Telling time
- 4.3 Elapsed time
- 4.4 Temperature
- 4.5 Length
- 4.6 Perimeter
- 4.7 Weight/mass
- 4.8 Capacity
- 4.9 Area
- 4.10 Volume

#### Objective 5 Data Analysis/Probability

- 5.1 Describe likelihood
- 5.2 Probability as a fraction
- 5.3 Predictions/conclusions
- 5.4 Record data
- 5.5 Interpret/analyze data

#### Objective 6 Strategies and Processes

- 6.1 Arithmetic strategies
- 6.2 Algebraic strategies
- 6.3 Geometric strategies
- 6.4 Measurement strategies
- 6.5 Data/probability strategies

#### Objective 7 Computational Math

- 7.1 Addition, numerical
- 7.2 Addition, application
- 7.3 Subtraction, numerical
- 7.4 Subtraction, application
- 7.5 Mult., numerical (facts to 12)
- 7.6 Mult., numerical (2 digits x 1 digit)
- 7.7 Multiplication, application
- 7.8 Division, models
- 7.9 Division (facts to 12)
- 7.10 Division, application
- 7.11 Multi-step problems
- 7.12 Estimation, sums/differences

### 3rd-Grade Reading (in English or Spanish)

#### Objective 1 - Word Meaning

- 1.1 Structural clues
- 1.2 Context clues
- 1.3 Multiple-meaning words
- 1.4 Figurative language

#### Objective 2 - Supporting Ideas

- 2.1 Facts and details
- 2.2 Sequential order
- 2.3 Recognize setting

#### Objective 3 - Summarization

- 3.1 Main idea
- 3.2 Summarizing

#### Objective 4 - Relationships and Outcomes

- 4.1 Cause and effect
- 4.2 Predict outcomes
- 4.3 Compare/contrast

#### Objective 5 - Inferences and Generalizations

- 5.1 Characters
- 5.2 Use/interpret graphics
- 5.3 Conclusions/observations

#### Objective 6 - Devices

- 6.1 Fact and fantasy
- 6.2 Fact and opinion
- 6.3 Purpose

### 3rd-Grade Writing (in English only)

#### Objective 1 - Parts of Speech

- 1.1 Nouns
- 1.2 Pronouns
- 1.3 Adjectives
- 1.4 Verbs
- 1.5 Adverbs

#### Objective 2 - Sentence Parts

- 2.1 Complete subject
- 2.2 Complete predicate
- 2.3 Simple subject
- 2.4 Simple predicate
- 2.5 Compound subject
- 2.6 Compound predicate

#### Objective 3 - Synonyms and Antonyms

- 3.1 Synonyms
- 3.2 Antonyms

#### Objective 4 - Sentence Types

- 4.1 Identify by name
- 4.2 Identify by sentence

#### Objective 5 - Sentence Construction

- 5.1 Sentence construction

#### Objective 6 - Usage

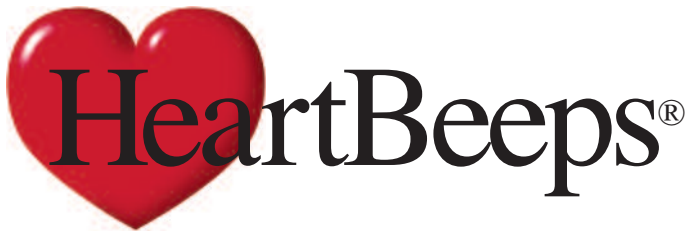
- 6.1 Usage

#### Objective 7 - Revising/editing, short

- 7.1 Revising/editing paragraphs

#### Objective 8 - Revising/editing, long

- 8.1 Revising/editing passages



## HeartBeeps Standards

### 4th-Grade Math (in English or Spanish)

#### Objective 1 - Number Concepts

- 1.1 Place value
- 1.2 Compare/order numbers
- 1.3 Translate numbers
- 1.4 Rounding
- 1.5 Decimal place value, models
- 1.6 Compare/order decimals
- 1.7 Equivalent fractions, models
- 1.8 Compare/order fractions, models
- 1.9 Relate decimals/fractions, models

#### Objective 2 - Algebraic Concepts

- 2.1 Multiplication patterns
- 2.2 Inverse operations
- 2.3 Related data

#### Objective 3 - Geometric Concepts

- 3.1 Angles and lines
- 3.2 Shapes and solids
- 3.3 Translations, reflections, rotations
- 3.4 Congruence
- 3.5 Symmetry
- 3.6 Number lines

#### Objective 4 - Measurement Concepts

- 4.1 Length and perimeter
- 4.2 Area
- 4.3 Temperature and time
- 4.4 Weight and capacity

#### Objective 5 - Probability and Statistics

- 5.1 Possible outcomes
- 5.2 Record data
- 5.3 Interpret data

#### Objective 6 - Strategies and Processes

- 6.1 Arithmetic strategies
- 6.2 Geometric strategies
- 6.3 Multiple operations
- 6.4 Reasonableness

#### Objective 7 - Math Representation

- 7.1 Solution sentences
- 7.2 Charts and graphs

#### Objective 8 - Computational Math

- 8.1 Addition, whole numbers
- 8.2 Addition, decimals w/ models
- 8.3 Addition, decimals
- 8.4 Subtraction, whole numbers
- 8.5 Subtraction, decimals w/ models
- 8.6 Subtraction, decimals
- 8.7 Multiplication, models
- 8.8 Multiplication, numerical
- 8.9 Multiplication, application
- 8.10 Division, numerical
- 8.11 Division, application
- 8.12 Estimation

### 4th-Grade Reading (in English or Spanish)

#### Objective 1 - Word Meaning

- 1.1 Structural clues
- 1.2 Context clues
- 1.3 Multiple-meaning words
- 1.4 Figurative language

#### Objective 2 - Supporting Ideas

- 2.1 Facts and details
- 2.2 Sequential order
- 2.3 Recognize settings

#### Objective 3 - Summarization

- 3.1 Main idea
- 3.2 Summarizing

#### Objective 4 - Relationships and Outcomes

- 4.1 Cause and effect
- 4.2 Observe/connect
- 4.3 Compare/contrast

#### Objective 5 - Inferences and Generalizations

- 5.1 Use/interpret graphics
- 5.2 Conclusions/observations
- 5.3 Characters
- 5.4 Plot, setting, problems

#### Objective 6 - Devices

- 6.1 Fact and opinion
- 6.2 Purpose
- 6.3 Point of view
- 6.4 Persuasion

### 4th-Grade Writing (in English only)

#### Objective 1 - Parts of Speech

- 1.1 Nouns
- 1.2 Pronouns
- 1.3 Adjectives
- 1.4 Verbs
- 1.5 Adverbs

#### Objective 2 - Sentence Parts

- 2.1 Simple subject
- 2.2 Simple predicate
- 2.3 Complete subject
- 2.4 Complete predicate
- 2.5 Compound subject
- 2.6 Compound predicate

#### Objective 3 - Synonyms and Antonyms

- 3.1 Synonyms
- 3.2 Antonyms

#### Objective 4 - Sentence Types

- 4.1 Identify by name
- 4.2 Identify by sentence

#### Objective 5 - Sentence Construction

- 5.1 Sentence construction

#### Objective 6 - Usage

- 6.1 Usage

#### Objective 7 - Revising/editing, short

- 7.1 Revising/editing paragraphs

#### Objective 8 - Revising/editing, long

- 8.1 Revising/editing passages

## HeartBeeps Standards

### 5th-Grade Math (in English only)

#### Objective 1 - Number Concepts

- 1.1 Translate whole numbers
- 1.2 Compare/order whole numbers
- 1.3 Translate decimals
- 1.4 Compare/order decimals
- 1.5 Equivalent fractions
- 1.6 Improper fractions/mixed numbers
- 1.7 Compare fractions
- 1.8 Order fractions
- 1.9 Relate decimals/fractions
- 1.10 Number lines
- 1.11 Round whole numbers/decimals
- 1.12 Prime/composite numbers
- 1.13 Common factors
- 1.14 Prime factors
- 1.15 Factor pairs
- 1.16 Factors and exponents
- 1.17 Percents
- 1.18 Simple ratios

#### Objective 2 - Algebraic Concepts

- 2.1 Related data
- 2.2 Evaluate variables
- 2.3 Application of variables
- 2.4 Properties
- 2.5 Inverse operations
- 2.6 Order of operations

#### Objective 3 - Geometric Concepts

- 3.1 Lines
- 3.2 Angles
- 3.3 Identify figures
- 3.4 Attributes of figures
- 3.5 Circles
- 3.6 Congruence and symmetry
- 3.7 Transformation results
- 3.8 Congruency transformations
- 3.9 Coordinate plane

#### Objective 4 - Measurement Concepts

- 4.1 Time
- 4.2 Temperature
- 4.3 Weight/mass
- 4.4 Length/distance
- 4.5 Capacity
- 4.6 Area
- 4.7 Volume
- 4.8 Customary conversion
- 4.9 Metric conversion

#### Objective 5 - Data Analysis/Probability

- 5.1 Results/predictions
- 5.2 Possible outcomes
- 5.3 Record data
- 5.4 Interpret data
- 5.5 Mean
- 5.6 Median, mode, range

#### Objective 6 - Strategies and Processes

- 6.1 Arithmetic strategies
- 6.2 Algebraic strategies
- 6.3 Geometric strategies
- 6.4 Measurement strategies
- 6.5 Data/probability strategies
- 6.6 Estimation strategies

#### Objective 7 - Computational Math

- 7.1 Addition, whole numbers, numerical
- 7.2 Addition, whole numbers, application
- 7.3 Addition, decimals, numerical
- 7.4 Addition, decimals, application
- 7.5 Addition, fractions, modeling
- 7.6 Addition, fractions, numerical
- 7.7 Subtraction, whole numbers, numerical
- 7.8 Subtraction, whole numbers, application
- 7.9 Subtraction, decimals, numerical
- 7.10 Subtraction, decimals, application
- 7.11 Subtraction, fractions, modeling
- 7.12 Subtraction, fractions, numerical
- 7.13 Mult., whole numbers, numerical
- 7.14 Mult., whole numbers, application
- 7.15 Multiplication, decimals, numerical
- 7.16 Multiplication, fractions, numerical
- 7.17 Division, whole numbers, numerical
- 7.18 Division, whole numbers, application
- 7.19 Division, decimals, numerical
- 7.20 Multiple operations

### 5th-Grade Reading (in English or Spanish)

#### Objective 1 - Word Meaning

- 1.1 Structural clues
- 1.2 Context clues
- 1.3 Multiple-meaning words
- 1.4 Figurative language

#### Objective 2 - Supporting Ideas

- 2.1 Facts and details
- 2.2 Sequential order
- 2.3 Recognize settings

#### Objective 3 - Summarization

- 3.1 Main idea
- 3.2 Summarizing

#### Objective 4 - Relationships and Outcomes

- 4.1 Cause and effect
- 4.2 Observe/connect
- 4.3 Compare/contrast

#### Objective 5 - Inferences and Generalizations

- 5.1 Use/interpret graphics
- 5.2 Conclusions/observations
- 5.3 Characters
- 5.4 Plot, setting, problems

#### Objective 6 - Devices

- 6.1 Fact and opinion
- 6.2 Purpose
- 6.3 Point of view
- 6.4 Persuasion

### 5th-Grade Writing (in English only)

#### Objective 1 - Parts of Speech

- 1.1 Nouns
- 1.2 Pronouns
- 1.3 Adjectives
- 1.4 Verbs
- 1.5 Adverbs

#### Objective 2 - Sentence Parts

- 2.1 Simple subject/predicate
- 2.2 Complete subject/predicate
- 2.3 Compound subject/predicate
- 2.4 Direct object

#### Objective 3 - Synonyms and Antonyms

- 3.1 Synonyms
- 3.2 Antonyms

#### Objective 4 - Sentence Construction

- 4.1 Sentence construction

#### Objective 5 - Usage

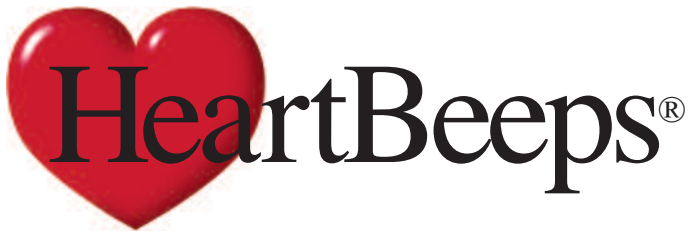
- 5.1 Usage

#### Objective 6 - Revising/editing, short

- 6.1 Revising/editing paragraphs

#### Objective 7 - Revising/editing, long

- 7.1 Revising/editing passages



## HeartBeeps Standards

### 5th-Grade Science

#### Basic Skills

##### Objective 1 - Science Basics

- 1.1 Tools/Equipment
- 1.2 Safety
- 1.3 Measurement
- 1.4 Knowledge/Evidence
- 1.5 Investigations

#### Life Science

##### Objective 2 - Organisms

- 2.1 Basics/Basic Needs
- 2.2 Ecosystems/Populations
- 2.3 Food Chains/Webs

##### Objective 3 - Animals

- 3.1 Classification/Characteristics
- 3.2 Systems/Cycles
- 3.3 Investigations

##### Objective 4 - Plants

- 4.1 Classification/Characteristics
- 4.2 Systems/Cycles
- 4.3 Investigations

##### Objective 5 - Human Body

- 5.1 Systems/Processes I
- 5.2 Systems/Processes II

##### Objective 6 - Heredity and Behavior

- 6.1 Traits/Behaviors
- 6.2 Adaptation/Survival

##### Objective 7 - Science and Daily Life

- 7.1 Personal Health
- 7.2 Technology/History

#### Earth/Space Science

##### Objective 8 - Earth

- 8.1 Earth/Landforms
- 8.2 The Atmosphere
- 8.3 The Oceans
- 8.4 Climate
- 8.5 Resources
- 8.6 Investigations

##### Objective 9 - Cycles and Forces

- 9.1 Natural Processes/Forces
- 9.2 Time Cycles
- 9.3 The Water Cycle
- 9.4 The Rock Cycle
- 9.5 Weather
- 9.6 Investigations

##### Objective 10 - Space

- 10.1 The Planets
- 10.2 The Sun and Moon
- 10.3 Other Space Objects

##### Objective 11 - Science and Daily Life

- 11.1 Resources
- 11.2 Technology/History

#### Physical Science

##### Objective 12 - Matter

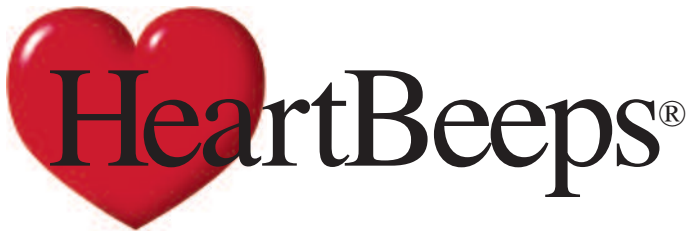
- 12.1 States/Classification of matter
- 12.2 Changes in matter
- 12.3 Investigations

##### Objective 13 - Energy, Forces, and Motion

- 13.1 Light
- 13.2 Heat
- 13.3 Electricity
- 13.4 Sound
- 13.5 Magnetism
- 13.6 Forces/Simple Machines

##### Objective 14 - Science and Daily Life

- 14.1 Resources
- 14.2 Technology/History



## HeartBeeps Standards

### 6th-Grade Math (in English or Spanish)

#### Objective 1 - Number Concepts

- 1.1 Compare/order numbers
- 1.2 Rounding
- 1.3 Percents
- 1.4 Exponential notation
- 1.5 Factoring
- 1.6 Multiples and Factors

#### Objective 2 - Algebraic Concepts

- 2.1 Patterns
- 2.2 Ratio and proportion
- 2.3 Ratios and percents
- 2.4 Equations/inequalities

#### Objective 3 - Geometric Concepts

- 3.1 Angles
- 3.2 Circles
- 3.3 Congruence, similarity, symmetry
- 3.4 Number lines
- 3.5 Ordered pairs

#### Objective 4 - Measurement Concepts

- 4.1 Measurement
- 4.2 Area and Volume
- 4.3 Perimeter and Circumference
- 4.4 Customary units
- 4.5 Metric units

#### Objective 5 - Probability and Statistics

- 5.1 Counting methods
- 5.2 Probability
- 5.3 Predictions
- 5.4 Analyze/interpret data
- 5.5 Mean
- 5.6 Range, median, mode

#### Objective 6 - Strategies and Processes

- 6.1 Fraction strategies
- 6.2 Proportion strategies
- 6.3 Geometric strategies
- 6.4 Probability/Statistics
- 6.5 Reasonableness

#### Objective 7 - Math Representation

- 7.1 Equations
- 7.2 Probability/Statistics
- 7.3 Variables

#### Objective 8 - Computational Math

- 8.1 Addition, decimals
- 8.2 Addition, fractions
- 8.3 Subtraction, decimals
- 8.4 Subtraction, fractions
- 8.5 Multiplication, whole numbers
- 8.6 Multiplication, decimals
- 8.7 Multiplication, fractions
- 8.8 Division, whole numbers
- 8.9 Division, decimals
- 8.10 Division, fractions
- 8.11 Estimation I
- 8.12 Estimation II

### 6th-Grade Reading (in English or Spanish)

#### Objective 1 - Word Meaning

- 1.1 Structural clues
- 1.2 Context clues
- 1.3 Multiple-meaning words
- 1.4 Figurative language

#### Objective 2 - Supporting Ideas

- 2.1 Facts and details
- 2.2 Sequential order
- 2.3 Setting

#### Objective 3 - Summarization

- 3.1 Main idea
- 3.2 Summarizing

#### Objective 4 - Relationships and Outcomes

- 4.1 Cause and effect
- 4.2 Observe/connect
- 4.3 Compare/contrast

#### Objective 5 - Inferences and Generalizations

- 5.1 Use/interpret graphics
- 5.2 Conclusions/observations
- 5.3 Evaluations
- 5.4 Characters
- 5.5 Plot, setting, problems

#### Objective 6 - Devices

- 6.1 Purpose
- 6.2 Persuasion
- 6.3 Point of view
- 6.4 Fact and opinion

### 6th-Grade Writing (in English only)

#### Objective 1 - Parts of Speech

- 1.1 Nouns
- 1.2 Pronouns
- 1.3 Adjectives
- 1.4 Verbs
- 1.5 Adverbs
- 1.6 Prepositions
- 1.7 Conjunctions/interjections

#### Objective 2 - Sentence Parts

- 2.1 Simple subject/predicate
- 2.2 Complete subject/predicate
- 2.3 Direct/indirect object
- 2.4 Dependent/independent clauses

#### Objective 3 - Synonyms and Antonyms

- 3.1 Synonyms
- 3.2 Antonyms

#### Objective 4 - Sentence Construction

- 4.1 Sentence construction

#### Objective 5 - Usage

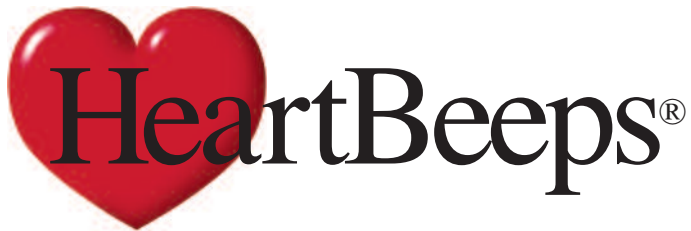
- 5.1 Usage

#### Objective 6 - Revising/editing, short

- 6.1 Revising/editing paragraphs

#### Objective 7 - Revising/editing, long

- 7.1 Revising/editing passages



## HeartBeeps Standards

### 7th-Grade Math

#### Objective 1 - Number Concepts

- 1.1 Compare/order integers
- 1.2 Compare/order decimals/fractions
- 1.3 Number conversion
- 1.4 Squares and square roots
- 1.5 Exponential notation
- 1.6 Scientific notation

#### Objective 2 - Algebraic Concepts

- 2.1 Percents
- 2.2 Ratio and proportion
- 2.3 Formulas
- 2.4 Graphs
- 2.5 Equations

#### Objective 3 - Geometric Concepts

- 3.1 Angles
- 3.2 Classify shapes
- 3.3 Classify solids
- 3.4 Similarity
- 3.5 Models
- 3.6 Coordinate planes

#### Objective 4 - Measurement Concepts

- 4.1 Perimeter and Circumference
- 4.2 Area
- 4.3 Volume

#### Objective 5 - Probability and Statistics

- 5.1 Counting methods
- 5.2 Probability
- 5.3 Data
- 5.4 Mean, median, mode, range

#### Objective 6 - Strategies and Processes

- 6.1 Arithmetic strategies
- 6.2 Proportional strategies
- 6.3 Measurement strategies
- 6.4 Geometric strategies
- 6.5 Probability/Statistics
- 6.6 Reasonableness

#### Objective 7 - Math Representation

- 7.1 Equations
- 7.2 Fractions and decimals
- 7.3 Charts and graphs

#### Objective 8 - Computational Math

- 8.1 Addition, decimals and fractions
- 8.2 Addition, signed numbers
- 8.3 Subtract., decimals and fractions
- 8.4 Subtraction, signed numbers
- 8.5 Multiplication, fractions
- 8.6 Multiplication, decimals
- 8.7 Multiplication, signed numbers
- 8.8 Division, fractions
- 8.9 Division, decimals
- 8.10 Division, signed numbers
- 8.11 Estimation

### 7th-Grade Reading

#### Objective 1 - Word Meaning

- 1.1 Structural clues
- 1.2 Context clues
- 1.3 Multiple-meaning words
- 1.4 Figurative language

#### Objective 2 - Supporting Ideas

- 2.1 Facts and details
- 2.2 Sequential order
- 2.3 Setting

#### Objective 3 - Summarization

- 3.1 Main idea
- 3.2 Summarizing

#### Objective 4 - Relationships and Outcomes

- 4.1 Cause and effect
- 4.2 Observe/connect
- 4.3 Compare/contrast

#### Objective 5 - Inferences and Generalizations

- 5.1 Use/interpret graphics
- 5.2 Conclusions/observations
- 5.3 Characters
- 5.4 Plot, setting, problems

#### Objective 6 - Devices

- 6.1 Purpose
- 6.2 Persuasion
- 6.3 Point of view
- 6.4 Fact and opinion

### 7th-Grade Writing

#### Objective 1 - Parts of Speech

- 1.1 Identify parts of speech

#### Objective 2 - Sentence Parts

- 2.1 Direct/indirect object
- 2.2 Dependent/independent clauses
- 2.3 Restrictive/nonrestrictive clauses
- 2.4 Prepositional phrases
- 2.5 Adverbial/adjective phrases

#### Objective 3 - Synonyms and Antonyms

- 3.1 Synonyms
- 3.2 Antonyms

#### Objective 4 - Sentence Construction

- 4.1 Sentence construction

#### Objective 5 - Usage

- 5.1 Usage

#### Objective 6 - Revising/editing, short

- 6.1 Revising/editing paragraphs

#### Objective 7 - Revising/editing, long

- 7.1 Revising/editing passages



## HeartBeeps Standards

### 8th-Grade Math

#### Objective 1 - Number Concepts

- 1.1 Compare/order rational numbers
- 1.2 Irrational numbers
- 1.3 Scientific notation
- 1.4 Squares and square roots

#### Objective 2 - Algebraic Concepts

- 2.1 Ratio and proportion
- 2.2 Alternate representation
- 2.3 Tables and graphs
- 2.4 Substitution
- 2.5 Unit rate

#### Objective 3 - Geometric Concepts

- 3.1 Transformations
- 3.2 Solids
- 3.3 Right triangles
- 3.4 Coordinate planes
- 3.5 Problem solving

#### Objective 4 - Measurement Concepts

- 4.1 Surface area, prisms/cylinders
- 4.2 Volume
- 4.3 Surface area, formulas
- 4.4 Similarity
- 4.5 Pythagorean theorem
- 4.6 Proportional changes, shapes
- 4.7 Proportional changes, solids

#### Objective 5 - Probability and Statistics

- 5.1 Probability
- 5.2 Central tendency
- 5.3 Data representation
- 5.4 Interpret data
- 5.5 Misuse of data

#### Objective 6 - Strategies and Processes

- 6.1 Solution sentences
- 6.2 Measurement strategies
- 6.3 Geometric strategies
- 6.4 Probability/Statistics
- 6.5 Algebraic strategies
- 6.6 Proportion strategies
- 6.7 Reasonableness

#### Objective 7 - Math Representation

- 7.1 Equations/inequalities
- 7.2 Charts and graphs
- 7.3 Predictions and Problems

### Objective 8 - Computational Math

- 8.1 Addition, application
- 8.2 Addition, numerical
- 8.3 Subtraction, application
- 8.4 Subtraction, numerical
- 8.5 Multiplication, application
- 8.6 Multiplication, numerical
- 8.7 Division, application
- 8.8 Division, numerical
- 8.9 Estimation I
- 8.10 Estimation II

### 8th-Grade Reading

#### Objective 1 - Word Meaning

- 1.1 Structural clues
- 1.2 Context clues
- 1.3 Multiple-meaning words
- 1.4 Figurative language

#### Objective 2 - Supporting Ideas

- 2.1 Facts and details
- 2.2 Sequential order

#### Objective 3 - Summarization

- 3.1 Main idea
- 3.2 Summarizing

#### Objective 4 - Relationships and Outcomes

- 4.1 Cause and effect
- 4.2 Observe/connect
- 4.3 Compare/contrast

#### Objective 5 - Inferences and Generalizations

- 5.1 Use/interpret graphics
- 5.2 Conclusions/observations
- 5.3 Characters
- 5.4 Plot, problems, mood

#### Objective 6 - Devices

- 6.1 Purpose
- 6.2 Persuasion
- 6.3 Point of view
- 6.4 Fact and opinion

### 8th-Grade Writing

#### Objective 1 - Parts of Speech

- 1.1 Identify parts of speech

#### Objective 2 - Sentence Parts

- 2.1 Direct/indirect objects
- 2.2 Dependent/independent clauses
- 2.3 Restrictive/nonrestrictive clauses
- 2.4 Prepositional phrases
- 2.5 Adverbial/adjective phrases

#### Objective 3 - Synonyms and Antonyms

- 3.1 Synonyms
- 3.2 Antonyms

#### Objective 4 - Sentence Construction

- 4.1 Sentence construction

#### Objective 5 - Usage

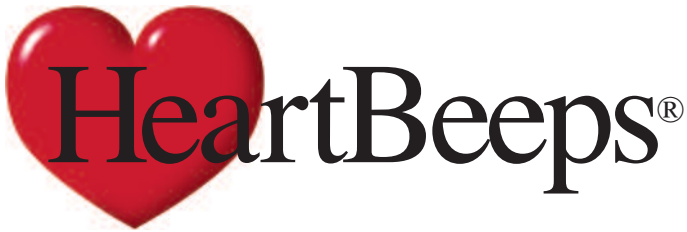
- 5.1 Usage

#### Objective 6 - Revising/editing, short

- 6.1 Revising/editing paragraphs

#### Objective 7 - Revising/editing, long

- 7.1 Revising/editing passages



## HeartBeeps Standards

### Middle School Science

#### Life Science

##### Objective 1 - Safety and Equipment

- 1.1 Tools/Equipment/Safety

##### Objective 2 - Basics of Organisms

- 2.1 Classifications
- 2.2 Building blocks
- 2.3 Energy systems
- 2.4 Ecosystems

##### Objective 3 - The Human Body

- 3.1 Respiration/Circulation
- 3.2 Digestion/Excretion
- 3.3 Nervous/Endocrine
- 3.4 Bones, muscles, and joints
- 3.5 Nutrition

##### Objective 4 - Animals

- 4.1 Features and functions
- 4.2 Systems/Cycles/Processes
- 4.3 Adaptations and survival

##### Objective 5 - Plants

- 5.1 Features and functions
- 5.2 Systems/Cycles/Processes
- 5.3 Adaptations and survival

##### Objective 6 - Microorganisms

- 6.1 Bacteria and viruses
- 6.2 Protists
- 6.3 Fungi

##### Objective 7 - Heredity and Behavior

- 7.1 Heredity
- 7.2 Behavior

##### Objective 8 - Personal/Social Perspectives

- 8.1 Personal health
- 8.2 Science in daily life
- 8.3 Technology
- 8.4 History

#### Earth/Space Science

##### Objective 1 - Safety and Equipment

- 1.1 Tools/Equipment/Safety

##### Objective 2 - Earth

- 2.1 Earth's structure
- 2.2 The Atmosphere
- 2.3 Resources
- 2.4 Minerals
- 2.5 Earth processes
- 2.6 Geologic time/fossils
- 2.7 Climate

##### Objective 3 - Cycles and Forces

- 3.1 Past, present, future
- 3.2 Rocks cycle
- 3.3 Water cycle
- 3.4 Cycles of change
- 3.5 Solar energy
- 3.6 Patterns
- 3.7 Forces/change

##### Objective 4 - Space

- 4.1 Our solar system
- 4.2 The sun/other stars
- 4.3 The moon
- 4.4 Galaxies/the universe

##### Objective 5 - Personal/Social Perspectives

- 5.1 Health/environment
- 5.2 Populations
- 5.3 Consumption/conservation
- 5.4 History/discoveries
- 5.5 Technology

#### Physical Science

##### Objective 1 - Fundamentals

- 1.1 Equipment/safety
- 1.2 Rules, laws, formulas

##### Objective 2 - Matter

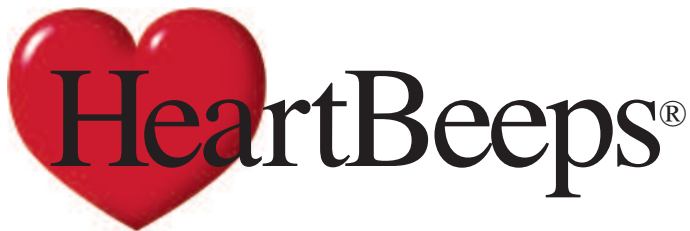
- 2.1 States of matter
- 2.2 Properties of matter
- 2.3 Elements
- 2.4 Atomic structure/Periodic table
- 2.5 Reactions, solutions, mixtures
- 2.6 Compounds/Chem. equations
- 2.7 Using formulas
- 2.8 Physical/chemical change

##### Objective 3 - Energy and Forces

- 3.1 Light and heat
- 3.2 Electricity and magnetism
- 3.3 Chemical energy and sound
- 3.4 Motion and force
- 3.5 Forces and change
- 3.6 Work and simple machines
- 3.7 Circuits and switches
- 3.8 Engines

##### Objective 4 - Personal/Social Perspectives

- 4.1 Resources
- 4.2 Technology
- 4.3 History



## HeartBeeps Standards

### 9th-Grade Math

#### Objective 1 - Number concepts

- 1.1 Compare/order rational numbers
- 1.2 Irrational numbers
- 1.3 Scientific notation
- 1.4 Exponential patterns
- 1.5 Squares and square roots

#### Objective 2 - Algebraic Concepts

- 2.1 Ratio and proportion
- 2.2 Alternate representation
- 2.3 Unit rate
- 2.4 Patterns
- 2.5 Properties
- 2.6 Slope/intercept
- 2.7 Substitution

#### Objective 3 - Geometric Concepts

- 3.1 Transformations
- 3.2 Solids
- 3.3 Coordinate planes
- 3.4 Pythagorean theorem

#### Objective 4 - Measurement Concepts

- 4.1 Surface area
- 4.2 Volume
- 4.3 Similarity
- 4.4 Proportional changes, shapes
- 4.5 Proportional changes, solids

#### Objective 5 - Probability and Statistics

- 5.1 Probability
- 5.2 Central tendency
- 5.3 Data representation
- 5.4 Interpret data
- 5.5 Misuse of data

#### Objective 6 - Strategies and Processes

- 6.1 Arithmetic strategies
- 6.2 Measurement strategies
- 6.3 Geometric strategies
- 6.4 Probability/Statistics
- 6.5 Algebraic strategies
- 6.6 Proportion strategies
- 6.7 Reasonableness

#### Objective 7 - Math Representation

- 7.1 Equations/inequalities
- 7.2 Charts and graphs
- 7.3 Predictions and problems

#### Objective 8 - Computational Math

- 8.1 Addition, rational numbers
- 8.2 Addition, irrational numbers
- 8.3 Subtraction, rational numbers
- 8.4 Subtraction, irrational numbers
- 8.5 Multiplication, rational numbers
- 8.6 Multiplication, irrational numbers
- 8.7 Division, rational numbers
- 8.8 Division, irrational numbers
- 8.9 Estimation

### 9th-Grade Reading

#### Objective 1 - Word Meaning

- 1.1 Structural clues
- 1.2 Context clues
- 1.3 Multiple-meaning words
- 1.4 Figurative language

#### Objective 2 - Supporting Ideas

- 2.1 Facts and details
- 2.2 Sequential order

#### Objective 3 - Summarization

- 3.1 Main idea
- 3.2 Summarizing

#### Objective 4 - Relationships and Outcomes

- 4.1 Cause and effect
- 4.2 Observe/connect
- 4.3 Compare/contrast

#### Objective 5 - Inferences and Generalizations

- 5.1 Use/interpret graphics
- 5.2 Conclusions/observations
- 5.3 Plot, setting, problems
- 5.4 Characters

#### Objective 6 - Devices

- 6.1 Purpose/point of view
- 6.2 Persuasion
- 6.3 Fact and opinion

### 10th- & 11th- Grade Reading

#### Objective 1 - Word Meaning

- 1.1 Structural clues
- 1.2 Context clues
- 1.3 Multiple-meaning words
- 1.4 Figurative language

#### Objective 2 - Supporting Ideas

- 2.1 Facts and details
- 2.2 Sequential order
- 2.3 Symbols

#### Objective 3 - Summarization

- 3.1 Main idea/Theme
- 3.2 Summarizing

#### Objective 4 - Relationships and Outcomes

- 4.1 Cause and effect
- 4.2 Observe/connect
- 4.3 Compare/contrast

#### Objective 5 - Inferences and Generalizations

- 5.1 Use/interpret graphics
- 5.2 Conclude/generalize
- 5.3 Evaluate/judge
- 5.4 Plot, setting, problems
- 5.5 Characters

#### Objective 6 - Devices

- 6.1 Purpose/point of view
- 6.2 Persuasion
- 6.3 Fact and opinion

### 9th – 11th Grade Writing

Revising/editing of long passages

## HeartBeeps Standards

### Algebra 1

#### Objective 1 - Dependence of Functions

- 1.1 Dependence/independence
- 1.2 Functional relationships
- 1.3 Equations/inequalities
- 1.4 Quantity relationships
- 1.5 Interpret relationships

#### Objective 2 - Properties/Attributes of Functions

- 2.1 Determine graphs
- 2.2 Domain and range
- 2.3 Interpret graphs
- 2.4 Make predictions

#### Objective 3 - Algebraic Expressions

- 3.1 Unknowns and variables
- 3.2 Algebraic statements

#### Objective 4 - Algebraic Symbols/Skills

- 4.1 Simplify, solve, factor
- 4.2 Algebraic properties
- 4.3 Fractions and polynomials

#### Objective 5 - Linear Functions

- 5.1 Situational functions
- 5.2 Range and domain
- 5.3 Descriptions

#### Objective 6 - Slope and Intercepts

- 6.1 Rates of change
- 6.2 Interpret slope
- 6.3 Changes on ( $y = mx + b$ )
- 6.4 Linear graphs
- 6.5 Determine intercepts
- 6.6 Applied situations
- 6.7 Direct variations

#### Objective 7 - Linear Function Solutions

- 7.1 Analyze situations
- 7.2 Solution methods
- 7.3 Reasonableness

#### Objective 8 - Systems of Linear Equations

- 8.1 Formulate systems
- 8.2 Solve systems
- 8.3 Reasonableness
- 8.4 Matrices

#### Objective 9 - Quadratic Equations

- 9.1 Range and domain
- 9.2 Horizontal changes
- 9.3 Vertical changes
- 9.4 Analyze graphs

#### Objective 10 - Quadratic Equation Solutions

- 10.1 Solve equations
- 10.2 Roots of functions

#### Objective 11 - Other Functions

- 11.1 Laws of exponents
- 11.2 Inverse variation
- 11.3 Growth and decay

#### Objective 12 - Probability

- 12.1 Permutations and combinations
- 12.2 Sample and event space
- 12.3 Mean, median, mode

### Geometry

#### Objective 1 - Structure/Relationships

- 1.1 Definitions/reasoning
- 1.2 Postulates/theorems
- 1.3 Historical development

#### Objective 2 - Analyze Relationships

- 2.1 Constructions
- 2.2 Problem solving

#### Objective 3 - Reasoning/Justification/Proof

- 3.1 Conditionals/converses
- 3.2 Justification of statements
- 3.3 Demonstration of proof
- 3.4 Deduction/induction

#### Objective 4 - Represent/Desc. Relationships

- 4.1 Represent/describe relationships

#### Objective 5 - Aspects of 2-/3-D Figures

- 5.1 Properties of polygons/circles
- 5.2 Real-world transformations
- 5.3 Right triangles

#### Objective 6 - Relationships of 2-/3-D Figures

- 6.1 Cross-sections
- 6.2 Nets
- 6.3 Views

#### Objective 7 - Coordinate System

- 7.1 2- and 3-D systems
- 7.2 Slope
- 7.3 Formulas

#### Objective 8 - Area, Perimeter, Volume

- 8.1 Area of polygons/composites
- 8.2 Sectors and arcs
- 8.3 Pythagorean theorem
- 8.4 Surface area/volume

#### Objective 9 - Properties/Relationships

- 9.1 Parallel/perpendicular lines
- 9.2 Polygons
- 9.3 Circles/intersecting lines
- 9.4 Component parts

#### Objective 10 - Congruence

- 10.1 Congruence transformations
- 10.2 Triangle congruence

#### Objective 11 - Justification/Solutions

- 11.1 Properties/transformations
- 11.2 Ratios
- 11.3 Right triangles/trig ratios
- 11.4 Dimensionality change