VSC - Mathematics

Print pages on legal paper, landscape mode.

Grade PK	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
Standard 7.0 Processes of Mathematics: Students demonstrate the processes of mathematics by making connections and applying reasoning to solve problems and to communicate their findings.	**Standard 7.0** Processes of Mathematics: Students demonstrate the processes of mathematics by making connections and applying reasoning to solve problems and to communicate their findings.	**Standard 7.0** Processes of Mathematics: Students demonstrate the processes of mathematics by making connections and applying reasoning to solve problems and to communicate their findings.	**Standard 7.0** Processes of Mathematics: Students demonstrate the processes of mathematics by making connections and applying reasoning to solve problems and to communicate their findings.	**Standard 7.0** Processes of Mathematics: Students demonstrate the processes of mathematics by making connections and applying reasoning to solve problems and to communicate their findings.	**Standard 7.0** Processes of Mathematics: Students demonstrate the processes of mathematics by making connections and applying reasoning to solve problems and to communicate their findings.	**Standard 7.0** Processes of Mathematics: Students demonstrate the processes of mathematics by making connections and applying reasoning to solve problems and to communicate their findings.	**Standard 7.0** Processes of Mathematics: Students demonstrate the processes of mathematics by making connections and applying reasoning to solve problems and to communicate their findings.	**Standard 7.0** Processes of Mathematics: Students demonstrate the processes of mathematics by making connections and applying reasoning to solve problems and to communicate their findings.	**Standard 7.0** Processes of Mathematics: Students demonstrate the processes of mathematics by making connections and applying reasoning to solve problems and to communicate their findings.
A. Problem Solving	**A**. Problem Solving	**A**. Problem Solving	**A**. Problem Solving	**A**. Problem Solving	**A**. Problem Solving	**A**. Problem Solving	**A**. Problem Solving	**A**. Problem Solving	**A**. Problem Solving
1. Apply a variety of concepts, processes, and skills to solve problems	**1.** Apply a variety of concepts, processes, and skills to solve problems	**1.** Apply a variety of concepts, processes, and skills to solve problems	**1.** Apply a variety of concepts, processes, and skills to solve problems	**1.** Apply a variety of concepts, processes, and skills to solve problems	**1.** Apply a variety of concepts, processes, and skills to solve problems	**1.** Apply a variety of concepts, processes, and skills to solve problems	**1.** Apply a variety of concepts, processes, and skills to solve problems	**1.** Apply a variety of concepts, processes, and skills to solve problems	**1.** Apply a variety of concepts, processes, and skills to solve problems
a. Identify the question in the problem	**a.** Identify the question in the problem	**a.** Identify the question in the problem	**a.** Identify the question in the problem	**a.** Identify the question in the problem	**a.** Identify the question in the problem	**a.** Identify the question in the problem	**a.** Identify the question in the problem	**a.** Identify the question in the problem ***50. 400-Acre Wood***	**a.** Identify the question in the problem ***50. 400-Acre Wood***
b. Decide if enough information is present to solve the problem	**b.** Decide if enough information is present to solve the problem	**b.** Decide if enough information is present to solve the problem	**b.** Decide if enough information is present to solve the problem	**b.** Decide if enough information is present to solve the problem	**b.** Decide if enough information is present to solve the problem	**b.** Decide if enough information is present to solve the problem	**b.** Decide if enough information is present to solve the problem	**b.** Decide if enough information is present to solve the problem	**b.** Decide if enough information is present to solve the problem
c. Make a plan to solve a problem	**c.** Make a plan to solve a problem	**c.** Make a plan to solve a problem	**c.** Make a plan to solve a problem	**c.** Make a plan to solve a problem	**c.** Make a plan to solve a problem	**c.** Make a plan to solve a problem	**c.** Make a plan to solve a problem	**c.** Make a plan to solve a problem ***50. 400-Acre Wood***	**c.** Make a plan to solve a problem ***50. 400-Acre Wood***

d. Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**d.** Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**d.** Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**d.** Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**d.** Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**d.** Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**d.** Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**d.** Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**d.** Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**d.** Apply a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation
e. Select a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**e.** Select a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**e.** Select a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**e.** Select a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**e.** Select a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**e.** Select a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**e.** Select a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**e.** Select a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**e.** Select a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation	**e.** Select a strategy, i.e., draw a picture, guess and check, finding a pattern, writing an equation
f. Identify alternative ways to solve a problem	**f.** Identify alternative ways to solve a problem	**f.** Identify alternative ways to solve a problem	**f.** Identify alternative ways to solve a problem	**f.** Identify alternative ways to solve a problem	**f.** Identify alternative ways to solve a problem	**f.** Identify alternative ways to solve a problem	**f.** Identify alternative ways to solve a problem	**f.** Identify alternative ways to solve a problem ***50. 400-Acre Wood*** ***50. 400-Acre Wood; Enrichment***	**f.** Identify alternative ways to solve a problem ***50. 400-Acre Wood*** ***50. 400-Acre Wood; Enrichment***
g. Show that a problem might have multiple solutions or no solution	**g.** Show that a problem might have multiple solutions or no solution	**g.** Show that a problem might have multiple solutions or no solution	**g.** Show that a problem might have multiple solutions or no solution	**g.** Show that a problem might have multiple solutions or no solution	**g.** Show that a problem might have multiple solutions or no solution	**g.** Show that a problem might have multiple solutions or no solution	**g.** Show that a problem might have multiple solutions or no solution	**g.** Show that a problem might have multiple solutions or no solution ***50. 400-Acre Wood*** ***50. 400-Acre Wood; Enrichment***	**g.** Show that a problem might have multiple solutions or no solution ***50. 400-Acre Wood*** ***50. 400-Acre Wood; Enrichment***
h. Extend the solution of a problem to a new problem situation	**h.** Extend the solution of a problem to a new problem situation	**h.** Extend the solution of a problem to a new problem situation	**h.** Extend the solution of a problem to a new problem situation	**h.** Extend the solution of a problem to a new problem situation	**h.** Extend the solution of a problem to a new problem situation	**h.** Extend the solution of a problem to a new problem situation	**h.** Extend the solution of a problem to a new problem situation	**h.** Extend the solution of a problem to a new problem situation	**h.** Extend the solution of a problem to a new problem situation
B. Reasoning	**B**. Reasoning	**B**. Reasoning	**B**. Reasoning	**B**. Reasoning	**B**. Reasoning	**B**. Reasoning	**B**. Reasoning	**B**. Reasoning	**B**. Reasoning
1. Justify ideas	**1.** Justify ideas	**1.** Justify ideas	**1.** Justify ideas	**1.** Justify ideas	**1.** Justify ideas	**1.** Justify ideas	**1.** Justify ideas	**1.** Justify ideas	**1.** Justify ideas

or solutions with mathematical concepts or proofs	or solutions with mathematical concepts or proofs	or solutions with mathematical concepts or proofs	or solutions with mathematical concepts or proofs	or solutions with mathematical concepts or proofs	or solutions with mathematical concepts or proofs	or solutions with mathematical concepts or proofs	or solutions with mathematical concepts or proofs	or solutions with mathematical concepts or proofs	or solutions with mathematical concepts or proofs
a. Use inductive or deductive reasoning	**a.** Use inductive or deductive reasoning	**a.** Use inductive or deductive reasoning	**a.** Use inductive or deductive reasoning	**a.** Use inductive or deductive reasoning	**a.** Use inductive or deductive reasoning	**a.** Use inductive or deductive reasoning	**a.** Use inductive or deductive reasoning	**a.** Use inductive or deductive reasoning	**a.** Use inductive or deductive reasoning
b. Make or test generalizations	**b.** Make or test generalizations	**b.** Make or test generalizations	**b.** Make or test generalizations	**b.** Make or test generalizations	**b.** Make or test generalizations	**b.** Make or test generalizations	**b.** Make or test generalizations	**b.** Make or test generalizations	**b.** Make or test generalizations
c. Support or refute mathematical statements or solutions	**c.** Support or refute mathematical statements or solutions	**c.** Support or refute mathematical statements or solutions	**c.** Support or refute mathematical statements or solutions	**c.** Support or refute mathematical statements or solutions	**c.** Support or refute mathematical statements or solutions	**c.** Support or refute mathematical statements or solutions	**c.** Support or refute mathematical statements or solutions	**c.** Support or refute mathematical statements or solutions	**c.** Support or refute mathematical statements or solutions
d. Use methods of proof, i.e., direct, indirect, paragraph, or contradiction	**d.** Use methods of proof, i.e., direct, indirect, paragraph, or contradiction	**d.** Use methods of proof, i.e., direct, indirect, paragraph, or contradiction	**d.** Use methods of proof, i.e., direct, indirect, paragraph, or contradiction	**d.** Use methods of proof, i.e., direct, indirect, paragraph, or contradiction	**d.** Use methods of proof, ie. direct, indirect, paragraph, or contradiction	**d.** Use methods of proof, i.e., direct, indirect, paragraph, or contradiction	**d.** Use methods of proof, i.e., direct, indirect, paragraph, or contradiction	**d.** Use methods of proof, i.e., direct, indirect, paragraph, or contradiction	**d.** Use methods of proof, i.e., direct, indirect, paragraph, or contradiction
C. Communication	**C**. Communication	**C**. Communication	**C**. Communication	**C**. Communication	**C**. Communication	**C**. Communication	**C**. Communication	**C**. Communication	**C**. Communication
1. Present mathematical ideas using words, symbols, visual displays, or technology	**1.** Present mathematical ideas using words, symbols, visual displays, or technology	**1.** Present mathematical ideas using words, symbols, visual displays, or technology	**1.** Present mathematical ideas using words, symbols, visual displays, or technology	**1.** Present mathematical ideas using words, symbols, visual displays, or technology	**1.** Present mathematical ideas using words, symbols, visual displays, or technology	**1.** Present mathematical ideas using words, symbols, visual displays, or technology	**1.** Present mathematical ideas using words, symbols, visual displays, or technology	**1.** Present mathematical ideas using words, symbols, visual displays, or technology	**1.** Present mathematical ideas using words, symbols, visual displays, or technology
a. Use multiple representations to express concepts or solutions	**a.** Use multiple representations to express concepts or solutions	**a.** Use multiple representations to express concepts or solutions	**a.** Use multiple representations to express concepts or solutions	**a.** Use multiple representations to express concepts or solutions	**a.** Use multiple representations to express concepts or solutions	**a.** Use multiple representations to express concepts or solutions	**a.** Use multiple representations to express concepts or solutions	**a.** Use multiple representations to express concepts or solutions	**a.** Use multiple representations to express concepts or solutions
b. Express mathematical ideas orally	**b.** Express mathematical ideas orally	**b.** Express mathematical ideas orally	**b.** Express mathematical ideas orally	**b.** Express mathematical ideas orally	**b.** Express mathematical ideas orally	**b.** Express mathematical ideas orally	**b.** Express mathematical ideas orally	**b.** Express mathematical ideas orally	**b.** Express mathematical ideas orally
c. Explain mathematically	**c.** Explain mathematically	**c.** Explain mathematically	**c.** Explain mathematically	**c.** Explain mathematically	**c.** Explain mathematically	**c.** Explain mathematically	**c.** Explain mathematically	**c.** Explain mathematically	**c.** Explain mathematically

ideas in written form	ideas in written form	ideas in written form	ideas in written form	ideas in written form	ideas in written form	ideas in written form	ideas in written form	ideas in written form	ideas in written form
d. Express solutions using concrete materials	**d.** Express solutions using concrete materials	**d.** Express solutions using concrete materials	**d.** Express solutions using concrete materials	**d.** Express solutions using concrete materials	**d.** Express solutions using concrete materials	**d.** Express solutions using concrete materials	**d.** Express solutions using concrete materials	**d.** Express solutions using concrete materials	**d.** Express solutions using concrete materials
e. Express solutions using pictorial, tabular, graphical, or algebraic methods	**e.** Express solutions using pictorial, tabular, graphical, or algebraic methods	**e.** Express solutions using pictorial, tabular, graphical, or algebraic methods	**e.** Express solutions using pictorial, tabular, graphical, or algebraic methods	**e.** Express solutions using pictorial, tabular, graphical, or algebraic methods	**e.** Express solutions using pictorial, tabular, graphical, or algebraic methods	**e.** Express solutions using pictorial, tabular, graphical, or algebraic methods	**e.** Express solutions using pictorial, tabular, graphical, or algebraic methods ***4. Sounds Around***	**e.** Express solutions using pictorial, tabular, graphical, or algebraic methods ***4. Sounds Around***	**e.** Express solutions using pictorial, tabular, graphical, or algebraic methods ***4. Sounds Around***
f. Explain solutions in written form	**f.** Explain solutions in written form	**f.** Explain solutions in written form	**f.** Explain solutions in written form	**f.** Explain solutions in written form	**f.** Explain solutions in written form	**f.** Explain solutions in written form	**f.** Explain solutions in written form	**f.** Explain solutions in written form	**f.** Explain solutions in written form
g. Ask questions about mathematical ideas or problems	**g.** Ask questions about mathematical ideas or problems	**g.** Ask questions about mathematical ideas or problems	**g.** Ask questions about mathematical ideas or problems	**g.** Ask questions about mathematical ideas or problems	**g.** Ask questions about mathematical ideas or problems	**g.** Ask questions about mathematical ideas or problems	**g.** Ask questions about mathematical ideas or problems	**g.** Ask questions about mathematical ideas or problems	**g.** Ask questions about mathematical ideas or problems
h. Give or use feedback to revise mathematical thinking	**h.** Give or use feedback to revise mathematical thinking	**h.** Give or use feedback to revise mathematical thinking	**h.** Give or use feedback to revise mathematical thinking	**h.** Give or use feedback to revise mathematical thinking	**h.** Give or use feedback to revise mathematical thinking	**h.** Give or use feedback to revise mathematical thinking	**h.** Give or use feedback to revise mathematical thinking	**h.** Give or use feedback to revise mathematical thinking	**h.** Give or use feedback to revise mathematical thinking
D. Connections	**D**. Connections	**D**. Connections	**D**. Connections	**D**. Connections	**D**. Connections	**D**. Connections	**D**. Connections	**D**. Connections	**D**. Connections
1. Relate or apply mathematics within the discipline, to other disciplines, and to life	**1.** Relate or apply mathematics within the discipline, to other disciplines, and to life	**1.** Relate or apply mathematics within the discipline, to other disciplines, and to life	**1.** Relate or apply mathematics within the discipline, to other disciplines, and to life	**1.** Relate or apply mathematics within the discipline, to other disciplines, and to life	**1.** Relate or apply mathematics within the discipline, to other disciplines, and to life	**1.** Relate or apply mathematics within the discipline, to other disciplines, and to life	**1.** Relate or apply mathematics within the discipline, to other disciplines, and to life	**1.** Relate or apply mathematics within the discipline, to other disciplines, and to life	**1.** Relate or apply mathematics within the discipline, to other disciplines, and to life
a. Identify mathematical	**a.** Identify mathematical	**a.** Identify mathematical	**a.** Identify mathematical	**a.** Identify mathematical	**a.** Identify mathematical	**a.** Identify mathematical	**a.** Identify mathematical	**a.** Identify mathematical	**a.** Identify mathematical

concepts in relationship to other mathematical concepts	concepts in relationship to other mathematical concepts	concepts in relationship to other mathematical concepts	concepts in relationship to other mathematical concepts	concepts in relationship to other mathematical concepts	concepts in relationship to other mathematical concepts	concepts in relationship to other mathematical concepts	concepts in relationship to other mathematical concepts	concepts in relationship to other mathematical concepts ***50. 400-Acre Wood*** ***50. 400-Acre Wood; Enrichment***	concepts in relationship to other mathematical concepts ***50. 400-Acre Wood*** ***50. 400-Acre Wood; Enrichment***
b. Identify mathematical concepts in relationship to other disciplines	**b.** Identify mathematical concepts in relationship to other disciplines	**b.** Identify mathematical concepts in relationship to other disciplines	**b.** Identify mathematical concepts in relationship to other disciplines	**b.** Identify mathematical concepts in relationship to other disciplines	**b.** Identify mathematical concepts in relationship to other disciplines	**b.** Identify mathematical concepts in relationship to other disciplines	**b.** Identify mathematical concepts in relationship to other disciplines	**b.** Identify mathematical concepts in relationship to other disciplines ***50. 400-Acre Wood*** ***50. 400-Acre Wood; Enrichment***	**b.** Identify mathematical concepts in relationship to other disciplines ***50. 400-Acre Wood*** ***50. 400-Acre Wood; Enrichment***
c. Identify mathematical concepts in relationship to life	**c.** Identify mathematical concepts in relationship to life	**c.** Identify mathematical concepts in relationship to life	**c.** Identify mathematical concepts in relationship to life	**c.** Identify mathematical concepts in relationship to life ***21. Adopt a Tree; Enrichment*** ***38. Every Drop Counts; Part A***	**c.** Identify mathematical concepts in relationship to life ***21. Adopt a Tree; Enrichment*** ***38. Every Drop Counts; Part A***	**c.** Identify mathematical concepts in relationship to life ***21. Adopt a Tree; Enrichment*** ***38. Every Drop Counts; Part A***	**c.** Identify mathematical concepts in relationship to life ***21. Adopt a Tree; Enrichment*** ***38. Every Drop Counts; Part A***	**c.** Identify mathematical concepts in relationship to life ***21. Adopt a Tree; Enrichment*** ***38. Every Drop Counts; Part A*** ***50. 400-Acre Wood*** ***50. 400-Acre Wood; Enrichment***	**c.** Identify mathematical concepts in relationship to life ***21. Adopt a Tree; Enrichment*** ***38. Every Drop Counts; Part A*** ***50. 400-Acre Wood*** ***50. 400-Acre Wood; Enrichment***
d. Use the	**d.** Use the	**d.** Use the	**d.** Use the	**d.** Use the	**d.** Use the	**d.** Use the	**d.** Use the	**d.** Use the	**d.** Use the

relationship among mathematical concepts to learn other mathematical concepts	relationship among mathematical concepts to learn other mathematical concepts	relationship among mathematical concepts to learn other mathematical concepts	relationship among mathematical concepts to learn other mathematical concepts	relationship among mathematical concepts to learn other mathematical concepts	relationship among mathematical concepts to learn other mathematical concepts	relationship among mathematical concepts to learn other mathematical concepts	relationship among mathematical concepts to learn other mathematical concepts	relationship among mathematical concepts to learn other mathematical concepts	relationship among mathematical concepts to learn other mathematical concepts