

Table of Contents

UNIT 1 Skills and Processes of Science 4

THINK About It: Evidence	4
READ and REMEMBER: Measuring and Observing	5
Test Your Memory	9
THINK About It: Reasonable and Proportionate Measurements	10
THINK About It: Fair Investigations	12
THINK About It: Why Did It Happen?	13
Challenge Yourself	14
READ and REMEMBER: Summarizing Data	16
Test Your Memory	18
Vocabulary Connections	19
Discuss Your Answers	20

UNIT 2 Earth/Space Science: Earth Processes..... 22

READ and REMEMBER: Weathering and Erosion	22
READ and REMEMBER: Wind, Water, and Ice	23
READ and REMEMBER: Transportation and Deposition	26
Test Your Memory	27
THINK About It: Natural Disasters and Surface Change	28
THINK About It: Learning About the Past	30
READ and REMEMBER: Rocks and Minerals	31
Challenge Yourself	33
READ and REMEMBER: The Water Cycle	35
Test Your Memory	37
Challenge Yourself	38
Vocabulary Connections	40
Discuss Your Answers	42

UNIT 3 Earth/Space Science: Astronomy 44

READ and REMEMBER: Earth, Moon, and Sun	44
Test Your Memory	48
READ and REMEMBER: Other Planets and the Stars	49
Test Your Memory	52
Challenge Yourself	53
Vocabulary Connections	55
Discuss Your Answers	56

UNIT 4 Life Sciences 58

THINK About It: Classifying Organisms	58
READ and REMEMBER: Adaptations	62
Test Your Memory	63
THINK About It: Organisms and Their Environment	64
Challenge Yourself	67
THINK About It: Inherited or Learned	69
READ and REMEMBER: Cells	70
Test Your Memory	74
READ and REMEMBER: The Flow of Energy	75

VSC

G3-5.1.A.1.a; G3-5.1.B.1.a
 G3-5.1.A.1.b, g
 G3-5.1.A.1.b, g
 G3-5.1.A.1.g
 G3-5.1.A.1.c, f
 G3-5.1.B.1.b,c; G3-5.1.C.1.d
 G3-5.1.A.1.c, f; G3-5.1.B.1.b, c; G3-5.1.C.1.d
 G3-5.1.C.1.a
 G3-5.1.C.1.a

G4.2.A.2.a, b
 G4.2.A.2.a, b; G5.2.A.2.c; G5.2.A.3.c
 G4.2.A.2.b; G5.2.A.2.c; G5.2.A.3.c
 G4.2.A.2.a, b; G5.2.A.2.c; G5.2.A.3.c
 G5.2.A.2.a
 G4.2.B.2.a, c
 G5.2.A.3.a, b
 G5.2.A.3.a
 G5.2.D.1.b; G5.2.E.1.a, b
 G4.2.A.2.a, b; G5.2.A.2.a; G5.2.E.1.a, b
 G5.2.E.1.a, b

G4.2.D.1.b; G5.2.D.1.b; G5.2.D.2.b, d
 G4.2.D.1.b; G5.2.D.1.b; G5.2.D.2.b, d
 G4.2.D.1.e; G5.2.D.2.b
 G4.2.D.1.e; G5.2.D.2.b, d
 G5.2.D.2.b, d

G4.3.A.1.b, c, d
 G4.3.C.1.b; G4.3.D.1.a, b; G5.3.A.1.a
 G4.3.C.1.b; G4.3.D.1.a, b; G5.3.A.1.a
 G4.3.D.1.a, b; G4.3.F.1.b; G5.3.A.1.a, b
 G4.3.D.1.a, b; G5.3.A.1.b
 G4.3.C.1.b; G4.3.D.1.b
 G5.3.B.1.c; G5.3.B.2.b, c
 G5.3.B.2.b, c
 G4.3.E.1.b; G4.3.F.1.a; G5.3.E.1.a, b

Table of Contents

<i>Test Your Memory</i>	78	VSC	G4.3.F.1.a; G5.3.E.1.a, b
THINK About It: Competition, Cooperation, Interaction	79		G4.3.F.1.a, b
<i>Challenge Yourself</i>	81		G4.3.F.1.a, b
<i>Vocabulary Connections</i>	83		
<i>Discuss Your Answers</i>	85		
UNIT 5: Chemistry	89		
THINK About It: Matter	89		G4.4.A.1.b, d; G5.4.B.1.c
READ and REMEMBER: States of Matter	91		G5.4.B.1.b; G5.4.C.1.a, b
<i>Test Your Memory</i>	93		G5.4.C.1.a, b
<i>Challenge Yourself</i>	94		G3-5.1.A.1.c; G5.4.B.1.b; G5.4.C.1.a
READ and REMEMBER: Combining Substances	96		G5.4.D.1.a, b
<i>Test Your Memory</i>	97		G5.4.B.1.b, c; G5.4.D.1.a, b
<i>Vocabulary Connections</i>	98		
<i>Discuss Your Answers</i>	99		
UNIT 6: Physics	101		
THINK About It: Types of Motion	101		G3-5.1.C.1.a; G5.5.A.1.a, b
THINK About It: Force, Acceleration, and Motion	103		G5.5.A.2.a, b
READ and REMEMBER: Heat	106		G4.5.B.1.a, b
<i>Test Your Memory</i>	108		G4.5.B.1.a, b
READ and REMEMBER: Electricity	109		G4.5.C.2.b, c, d
READ and REMEMBER: Magnetism	111		G4.5.C.3.a, b
<i>Test Your Memory</i>	112		G4.5.C.2.c, d; G4.5.C.3.a, b
<i>Challenge Yourself</i>	113		G4.5.C.3.b; G5.4.D.1.a; G5.5.A.2.a
THINK About It: Reflection	115		G5.5.D.3.a, b
<i>Vocabulary Connections</i>	118		
<i>Discuss Your Answers</i>	120		
UNIT 7: Environmental Science	123		
THINK About It: Renewable & Nonrenewable Resources	123		G5.6.A.1.b, c
THINK About It: Maryland's Resources	126		G5.6.A.1.a
THINK About It: Effect of the Environment on People	128		G4.6.B.1.a
<i>Challenge Yourself</i>	130		G4.6.B.1.a; G5.6.A.1.a
READ and REMEMBER: Negative Human Impacts	132		G5.6.B.2.b
READ and REMEMBER: Positive Human Activities	134		G5.6.B.2.a
<i>Test Your Memory</i>	135		G5.6.B.2.a, b
THINK About It: Differential Impacts	136		G5.6.B.2.c
<i>Discuss Your Answers</i>	138		
UNIT 8: Answering Questions from Reading Passages	140		
PRACTICE MSA 1	146		
PRACTICE MSA 2	180		