

Earth Systems 3209 – Outcome Report, June 2011

Curricular Content Area	Question Distribution by Reporting Category		
	Level 1	Level 2	Level 3
Unit 1 Introduction to Earth Systems Science	1, 2, 3, 4	5, 6, 61(a)	61(b)
Unit 2 Earth's Systems	7, 9, 11, 12	8, 10, 62(a)	62(b)
Unit 3 The Geosphere	16, 17, 18, 19, 21, 24, 25, 26, 27, 29, 30, 31, 33, 34, 35, 36, 37, 40, 41, 42, 43, 44, 45, 46, 49	13, 14, 15, 23, 38, 39, 48, 50, 51, 63(b), 63(c), 63(d), 63(e), 63(f), 63(g), 63(h), 63(j), 63(k)	20, 22, 28, 32, 47, 63(a), 63(i)
Unit 4 Earth Through Time	53, 54, 55, 56, 57, 58, 60	64(a), 64(b), 64(c)	52, 59

Part 1: Multiple Choice

Question	Outcome	Level	Curricular Concept
1.	1.2.3.2	1	The Nature and Importance of Earth Science
2.	1.1.5	1	The Nature and Importance of Earth Science
3.	1.2.3.5	1	Historical Development/Ideas
4.	1.1.1	1	The Nature and Importance of Earth Science
5.	1.2.3.7	2	Historical Development/Ideas
6.	1.2.3.10/1.2.3.5	2	Historical Development/Ideas
7.	2.2.2.1/2.2.2.2/ 3.3.3.8	1	The Hydrosphere: Origin
8.	2.3.2.1/2.3.2.2	2	The Hydrosphere: Distribution
9.	2.3.2.1/2.3.2.2	1	The Hydrosphere: Distribution
10.	2.3.2.1/2.3.2.2	2	The Hydrosphere: Distribution
11.	2.2.1.5	1	The Geosphere: Origin
12.	2.3.2.1	1	The Hydrosphere: Distribution
13.	3.1.1.1	2	Minerals – The Building Blocks: Chemistry
14.	3.1.3.1/ Lab 3	2	Minerals – The Building Blocks: Mineral Identification
15.	3.1.2.2/3.1.2.4	2	Minerals – The Building Blocks: Major Mineral Groups
16.	3.1.3.1	1	Minerals – The Building Blocks: Mineral Identification
17.	3.2.3.1	1	Rocks and the Rock Cycle: Igneous Rocks
18.	3.2.3.1	1	Rocks and the Rock Cycle: Igneous Rocks
19.	3.2.3.1	1	Rocks and the Rock Cycle: Igneous Rocks
20.	3.2.2.1/3.2.1.3	3	Rocks and the Rock Cycle: The Rock Cycle
21.	3.2.3.1/3.2.3.2/ /3.3.3.11	1	Rocks and the Rock Cycle: Igneous Rocks
22.	3.3.3.11	3	Plate Tectonics: Evidence for Plate Tectonics
23.	3.2.4.4	2	Rocks and the Rock Cycle: Sedimentary Rocks
24.	3.2.4.3	1	Rocks and the Rock Cycle: Sedimentary Rocks
25.	3.2.4.11/3.2.4.13/ 3.2.4.8	1	Rocks and the Rock Cycle: Sedimentary Rocks
26.	3.2.4.6	1	Rocks and the Rock Cycle: Sedimentary Rocks
27.	3.5.1.2/3.5.1.4	1	Rocks and the Rock Cycle: Metamorphic Rocks
28.	3.2.5.3/3.2.5.2	3	Rocks and the Rock Cycle: Metamorphic Rocks
29.	3.2.5.2	1	Rocks and the Rock Cycle: Metamorphic Rocks
30.	3.2.5.1	1	Rocks and the Rock Cycle: Metamorphic Rocks
31.	3.2.5.3	1	Rocks and the Rock Cycle: Metamorphic Rocks
32.	3.3.2.6	3	Plate Tectonics: The Plate Tectonic Theory
33.	3.2.4.1	1	Rocks and the Rock Cycle: Sedimentary Rocks

Question	Outcome	Level	Curricular Concept
34.	3.3.1.1/3.3.2.4	1	Plate Tectonics: History
35.	Lab 12	1	The Plate Tectonic Theory
36.	3.3.2.4	1	The Plate Tectonic Theory
37.	3.3.2.7	1	The Plate Tectonic Theory
38.	3.3.3.5	2	Plate Tectonics: Evidence
39.	3.3.3.7/Lab7	2	Plate Tectonics: Evidence
40.	3.3.3.8	1	Plate Tectonics: Evidence
41.	3.3.3.8	1	Plate Tectonics: Evidence
42.	3.3.2.5	1	The Plate Tectonic Theory
43.	3.5.1.4	1	Economic Minerals
44.	3.5.1.3	1	Economic Minerals
45.	3.5.1.2/3.2.4.3/ 3.2.4.7	1	Economic Minerals/Sedimentary Rocks
46.	3.1.2.2/3.5.1.5	1	Minerals – Major Mineral Groups
47.	1.2.3.5/3.4.2/3.4.1 /3.5.4.2/4.1.2.1	3	Interpreting the Rock Record
48.	3.4.1	2	Interpreting the Rock Record
49.	3.3.2.8	1	The Plate Tectonic Theory
50.	3.3.2.8/3.3.2.9	2	The Plate Tectonic Theory
51.	3.2.4.7	2	Rocks and the Rock Cycle: Sedimentary Rocks
52.	4.1.1.6/4.1.2.1	3	The Evolution of Life: Fossils
53.	4.1.1.2	1	The Evolution of Life: Fossils
54.	4.1.1.4	1	Plate Tectonics Through Time: Present Day Activity
55.	4.3.4	1	Global Change – Past, Present and Future
56.	4.2.2.2	1	Global Change – Past, Present and Future
57.	4.1.2.1	1	The Evolution of Life: Life Through Time
58.	4.1.3.1	1	The Evolution of Life: Life Through Time
59.	4.3.5	3	Plate Tectonics Through Time: Present Day Activity
60.	4.2.1.1	1	The Evolution of Life: Fossils

Part 2: Constructed Response

Question	Value	Outcome	Level	Curricular Concept
61. (a)	2%	1.2.3.7/1.2.3.9	2	Historical Development: Geological Time
61. (b)	2%	1.2.2.1	3	Historical Development: Historical Ideas
62. (a)	2%	2.1.2/2.1.3	2	The Spheres: Definition
62. (b)	2%	2.3.2.2/2.3.2.6	3	The Hydrosphere: Distribution

Question	Value	Outcome	Level	Curricular Concept
63. (a)	2%	3.1.3.1	3	Minerals – The Building Blocks: Mineral Identification
63. (b)	2%	3.2.4.1	2	Rocks and the Rock Cycle: Sedimentary Rocks
63. (c)	2%	3.2.3.2	2	Rocks and the Rock Cycle: Igneous Rocks
63. (d)	2%	3.2.4.4/3.2.4.5	2	Rocks and the Rock Cycle: Sedimentary Rocks
63. (e)	2%	3.2.5.1/3.2.5.2/3.2.5.3	2	Rocks and the Rock Cycle: Metamorphic Rocks
63. (f)	4%	3.3.2.5/3.3.2.8	2	Evidence for Plate Tectonics
63. (g)	2%	3.3.3.1	2	Evidence for Plate Tectonics
63. (h)	2%	3.3.2.7	2	The Plate Tectonic Theory
63. (i)	2%	3.3.3.7	3	Evidence for Plate Tectonics
63. (j)	3%	3.4.1	2	Interpreting the Rock Record
63. (k)	3%	3.5.1.2/3.5.1.4	2	Economic Resources and Their Formation
64. (a)	2%	4.1.1.3	2	The Evolution of Life: Fossils
64. (b)	2%	4.2.1.1	2	Plate Tectonics through Time: Rodinia to Present Day
64. (c)	2%	4.1.1.4	2	The Evolution of Life: Fossils