

		1A/M4ab*	0	0	0	0	0	0
		1A/M4c*	0	0	0	0	0	0
		1A/H1*	3 (1, 2, 2)	3 (1, 2, 2)	0	0	0	0
		1A/H2*	0	0	0	0	0	0
		1A/H3a	0	0	0	0	0	0
		1A/H3bc*	2 (1, 2, 2)	0	0	1 (1, 1, 1)	1 (1, 1, 1)	0
		1A/H3d*	0	0	0	0	0	0
	Scientific Inquiry		122 (91, 155, 78)	46 (26, 39, 23)	0	25 (22, 25, 22)	51 (43, 51, 33)	1 (1, 1, 0)
		1B/M1a	0	0	0	0	0	0
		1B/M1b*	113 (82, 106, 72)	46 (26, 39, 23)	0	22 (19, 22, 19)	45 (37, 45, 30)	1 (1, 1, 0)
		1B/M2ab	0	0	0	0	0	0
		1B/M2c*	0	0	0	0	0	0
		1B/M3ab	0	0	0	0	0	0
		1B/M3c	0	0	0	0	0	0
		1B/H1	0	0	0	0	0	0
		1B/H2	0	0	0	0	0	0
		1B/H3*	15 (14, 15, 9)	2 (1, 1, 1)	0	6 (6, 6, 4)	7 (7, 7, 4)	0
		1B/H4*	1	0	0	0	1	0

			(1, 1, 1)				(1, 1, 1)	
		1B/H5	0	0	0	0	0	0
		1B/H6a	0	0	0	0	0	0
		1B/H6b*	0	0	0	0	0	0
		1B/H7	0	0	0	0	0	0
		1B/H8**	0	0	0	0	0	0
		1B/H9**	0	0	0	0	0	0
		1B/H10**	0	0	0	0	0	0
		1B/H11**	0	0	0	0	0	0
	The Scientific Enterprise		13 (7, 12, 7)	7 (2, 7, 3)	0	0	6 (5, 5, 4)	0
		1C/M1	0	0	0	0	0	0
		1C/M2	0	0	0	0	0	0
		1C/M3	0	0	0	0	0	0
		1C/M4	2 (2, 2, 0)	2 (2, 2, 0)	0	0	0	0
		1C/M5ac*	0	0	0	0	0	0
		1C/M5b*	0	0	0	0	0	0
		1C/M6*	0	0	0	0	0	0
		1C/M7	0	0	0	0	0	0
		1C/M8**	0	0	0	0	0	0
		1C/M9**	0	0	0	0	0	0

		1C/H1*	0	0	0	0	0	0
		1C/H3a	0	0	0	0	0	0
		1C/H3b	0	0	0	0	0	0
		1C/H4	0	0	0	0	0	0
		1C/H5a*	0	0	0	0	0	0
		1C/H5b*	0	0	0	0	0	0
		1C/H6ab	10 (5, 10, 6)	5 (5, 3, 2)	0	0	5 (5, 5, 3)	0
		1C/H6c*	1 (0, 0, 1)	0	0	0	1 (0, 0, 1)	0
		1C/H6d*	0	0	0	0	0	0
		1C/H7	0	0	0	0	0	0
		1C/H8	0	0	0	0	0	0
		1C/H9**	0	0	0	0	0	0
		1C/H10**	0	0	0	0	0	0
		1C/H11**	0	0	0	0	0	0
		1C/H12**	0	0	0	0	0	0
The Nature of Mathemati cs			0	0	0	0	0	0
	Patterns and Relationships		0	0	0	0	0	0

		2A/M1						
		2A/M2						
		2A/H1*						
		2A/H2						
		2A/H3						
	Mathematics, Science, and Technology		0	0	0	0	0	0
		2B/M1*						
		2B/H1*						
		2B/H2						
		2B/H3*						
		2B/H4a						
		2B/H4b						
		2B/H5						
		2B/H6**						
	Mathematical Inquiry		0	0	0	0	0	0
		2C/M1						
		2C/M2a						
		2C/M2b						

		2C/H1						
		2C/H2*						
		2C/H3**						
The Nature of Technology			7 (3, 6, 6)	3 (1, 2, 2)	0	1 (0, 1, 1)	3 (2, 3, 3)	0
	Issues of Technology		7 (3, 6, 6)	3 (1, 2, 2)	0	1 (0, 1, 1)	3 (2, 3, 3)	0
		3C/M1	0	0	0	0	0	0
		3C/M2*	0	0	0	0	0	0
		3C/M3	0	0	0	0	0	0
		3C/M4*	0	0	0	0	0	0
		3C/M5	0	0	0	0	0	0
		3C/M6*	0	0	0	0	0	0
		3C/M7	0	0	0	0	0	0
		3C/M8**	0	0	0	0	0	0
		3C/M9**	0	0	0	0	0	0
		3C/H1	7 (3, 6, 6)	3 (1, 2, 2)	0	1 (1, 1, 1)	3 (2, 3, 3)	0
		3C/H2*	0	0	0	0	0	0
		3C/H3*	0	0	0	0	0	0

		4B/M11bc*	2 (2, 2, 0)	0	0	0	2 (2, 2, 0)	0
		4B/M12**	1 (0, 1, 1)	1 (0, 1, 1)	0	0	0	0
		4B/M13**	1 (1, 1, 0)	0	0	1 (1, 1, 0)	0	0
		4B/M14**	21 (14, 17, 13)	14 (7, 10, 8)	0	2 (2, 2, 2)	5 (5, 5, 3)	0
		4B/M15**	0	0	0	0	0	0
		4B/H1*	0	0	0	0	0	0
		4B/H2*	15 (10, 13, 5)	7 (3, 5, 1)	0	3 (3, 3, 1)	4 (4, 4, 2)	1 (0, 1, 1)
		4B/H3**	19 (15, 14, 7)	9 (6, 5, 2)	0	7 (7, 7, 3)	3 (2, 2, 2)	0
		4B/H4**	25 (19, 24, 13)	6 (3, 5, 3)	0	11 (8, 11, 7)	8 (8, 8, 3)	0
		4B/H5**	10 (5, 8, 3)	8 (3, 6, 3)	0	0	2 (2, 2, 0)	0
		4B/H6**	89 (61, 77, 59)	34 (18, 24, 22)	2 (2, 2, 0)	23 (17, 23, 18)	30 (24, 28, 19)	1 (1, 1, 0)
		4B/H8**	0	0	0	0	0	0
		4B/H9**	0	0	0	0	0	0
	Processes that Shape the Earth		32 (27, 29, 13)	9 (5, 7, 3)	1 (1, 1, 0)	6 (5, 6, 4)	16 (16, 15, 6)	0

		4C/M1	0	0	0	0	0	0
		4C/M2a	0	0	0	0	0	0
		4C/M2b*	0	0	0	0	0	0
		4C/M3	0	0	0	0	0	0
		4C/M4	0	0	0	0	0	0
		4C/M5	0	0	0	0	0	0
		4C/M6	0	0	0	0	0	0
		4C/M7	25 (23, 23, 10)	5 (4, 4, 1)	0	4 (3, 4, 3)	16 (16, 15, 6)	0
		4C/M8**	0	0	0	0	0	0
		4C/M9**	0	0	0	0	0	0
		4C/M10**	0	0	0	0	0	0
		4C/M11**	0	0	0	0	0	0
		4C/M12**	0	0	0	0	0	0
		4C/M13**	0	0	0	0	0	0
		4C/H1*	8 (5, 7, 3)	4 (1, 3, 2)	1 (1, 1, 0)	2 (2, 2, 1)	1 (1, 1, 0)	0
		4C/H2	0	0	0	0	0	0
		4C/H3*	0	0	0	0	0	0

		4C/H5*	0	0	0	0	0	0
		4C/H6**	0	0	0	0	0	0
	Energy Transformations		36 (24, 26, 13)	22 (12, 13, 4)	0	6 (6, 6, 3)	8 (6, 7, 6)	0
		4E/M1*	0	0	0	0	0	0
		4E/M2*	0	0	0	0	0	0
		4E/M3*	0	0	0	0	0	0
		4E/M4*	0	0	0	0	0	0
		4E/M6**	32 (22, 22, 10)	20 (12, 11, 3)	0	5 (5, 5, 2)	7 (5, 6, 5)	0
		4E/H1*	0	0	0	0	0	0
		4E/H2*	0	0	0	0	0	0
		4E/H3*	0	0	0	0	0	0
		4E/H4*	0	0	0	0	0	0
		4E/H5*	0	0	0	0	0	0
		4E/H6*	0	0	0	0	0	0
		4E/H7**	0	0	0	0	0	0
		4E/H8**	4 (2, 4, 3)	2 (0, 2, 1)	0	1 (1, 1, 1)	1 (1, 1, 1)	0

		4E/H9**	0	0	0	0	0	0
		4E/H10**	0	0	0	0	0	0
The Living Environment			92 (79, 81, 36)	31 (21, 22, 6)	0	14 (13, 14, 9)	47 (45, 45, 21)	0
	Interdependence of Life		49 (41, 46, 19)	16 (8, 14, 3)	0	6 (6, 6, 3)	27 (27, 26, 13)	0
		5D/M1a*	0	0	0	0	0	0
		5D/M1b*	40 (32, 37, 15)	16 (8, 14, 3)	0	3 (3, 3, 2)	21 (21, 20, 10)	0
		5D/M2*	0	0	0	0	0	0
		5D/M2b	0	0	0	0	0	0
		5D/M3**	0	0	0	0	0	0
		5D/M4**	0	0	0	0	0	0
		5D/H1*	0	0	0	0	0	0
		5D/H2*	3 (3, 2, 2)	0	0	0	3 (3, 2, 2)	0
		5D/H3	10 (10, 10, 4)	0	0	3 (3, 3, 1)	7 (7, 7, 3)	0
	Evolution of Life		68 (60, 57, 24)	23 (18, 14, 3)	0	11 (10, 11, 7)	34 (32, 32, 14)	0
		5F/M1	0	0	0	0	0	0
		5F/M2a	1 (0, 1, 0)	1 (0, 1, 0)	0	0	0	0

	Human Development		0	0	0	0	0	0
	Basic Functions		0	0	0	0	0	0
	Learning		0	0	0	0	0	0
	Physical Health	6E	0	0	0	0	0	0
	Mental Health		0	0	0	0	0	0
Human Society			15 (2, 7, 3)	7 (2, 7, 3)	0	0	8 (7, 7, 3)	0
	Social Change		3 (2, 3, 0)	2 (1, 2, 0)	0	0	1 (1, 1, 0)	0
		7C/M1	0	0	0	0	0	0
		7C/M2	0	0	0	0	0	0
		7C/M3	0	0	0	0	0	0
		7C/H1	0	0	0	0	0	0
		7C/H2	3 (2, 3, 0)	2 (1, 2, 0)	0	0	1 (1, 1, 0)	0
		7C/H3	0	0	0	0	0	0

		7G/H1*	0	0	0	0	0	0
		7G/H2*	0	0	0	0	0	0
		7G/H4*	6 (3, 5, 3)	2 (0, 2, 1)	0	0	4 (3, 3, 2)	0
		7G/H5**	0	0	0	0	0	0
The Designed World			133 (88, 118, 74)	61 (32, 49, 29)	1 (1, 1, 0)	27 (19, 27, 20)	44 (36, 41, 25)	0
	Materials and Manufacturing		7 (4, 7, 4)	2 (0, 2, 1)	0	2 (1, 2, 2)	3 (3, 3, 1)	0
		8B/H1	0	0	0	0	0	0
		8B/H2	3 (3, 3, 2)	0	0	1 (1, 1, 1)	2 (2, 2, 1)	0
		8B/H4*	3 (1, 3, 2)	1 (0, 1, 1)	0	1 (0, 1, 1)	1 (1, 1, 0)	0
		8B/H5**	1 (0, 1, 0)	1 (0, 1, 0)	0	0	0	0
		8B/H6**	0	0	0	0	0	0
		8B/H7** (SFAA)	0	0	0	0	0	0
	Energy Sources and Use		107 (79, 96, 54)	48 (29, 40, 20)	1 (1, 1, 0)	18 (14, 18, 12)	40 (35, 37, 22)	0
		8C/M1*	2 (2, 2, 0)	2 (2, 2, 0)	0	0	0	0
		8C/M2	18 (13, 15, 8)	10 (5, 7, 4)	0	0	8 (8, 8, 4)	0

	Shapes		0	0	0	0	0	0
	Uncertainty		0	0	0	0	0	0
	Reasoning		0	0	0	0	0	0
Historical Perspectives			0	0	0	0	0	0
	A Displacing the Earth from the Center of the Universe		0	0	0	0	0	0
	Uniting the Heavens and Earth		0	0	0	0	0	0
	Relating Matter & Energy and Time & Space		0	0	0	0	0	0
	Extending Time		0	0	0	0	0	0
	Moving the Continents		0	0	0	0	0	0
	Understanding Fire		0	0	0	0	0	0
	Splitting the Atom		0	0	0	0	0	0
	Explaining the Diversity of Life		0	0	0	0	0	0
	Discovering Gems		0	0	0	0	0	0
	Harnessing Power		0	0	0	0	0	0

Common Themes			5 (2, 4, 4)	4 (1, 3, 3)	0	1 (1, 1, 1)	0	0
	Models		1 (1, 1, 1)	0	0	1 (1, 1, 1)	0	0
		11B/H1a*	0	0	0	0	0	0
		11B/H1b	0	0	0	0	0	0
		11B/H2*	1 (1, 1, 1)	0	0	1 (1, 1, 1)	0	0
		11B/H3*	0	0	0	0	0	0
		11B/H4** (SFAA)	0	0	0	0	0	0
		11B/H5** (SFAA)	0	0	0	0	0	0
	Constancy and Change		4 (1, 3, 3)	4 (1, 3, 3)	0	0	0	0
		11C/M2*	0	0	0	0	0	0
		11C/M3*	0	0	0	0	0	0
		11C/M4	0	0	0	0	0	0
		11C/M6*	0	0	0	0	0	0
		11C/M7**	0	0	0	0	0	0
		11C/M8**	0	0	0	0	0	0
		11C/M9**	0	0	0	0	0	0
		11C/M10**	0	0	0	0	0	0

		11C/M11**	0	0	0	0	0	0
		11C/H1*	4 (1, 3, 3)	4 (1, 3, 3)	0	0	0	0
		11C/H3	0	0	0	0	0	0
		11C/H4	0	0	0	0	0	0
		11C/H5*	0	0	0	0	0	0
		11C/H6*	0	0	0	0	0	0