

National Science Education Standards Grades 5–8

	Science as Inquiry			
	CSI 5	CSI 6	CSI 7–8 Earth Science	CSI 7–8 Life Science
NS. 5–8.1				CSI 7–8 Physical Science
Abilities necessary to do scientific inquiry	1.1, 1.3, 1.4	1.2, 1.3, 3.6, 4.2, 4.3, 5.1, 6.5, 7.1, 7.4, 8.2, 8.4–8.6;	1.3.2, 1.5.5, 1.5.6, 1.6.3, 2.3.1, 3.1.1, 3.1.3, 3.1.4, 3.1.7, 2.2.1, 2.2.2, 4.1.1, 4.1.5, 4.2.1, 4.2.6, 4.3.3, 5.1.2	1.2.4, 2.3.4, 3.2.1, 5.2.2, 7.2.1
Understandings about scientific inquiry	1.2, 1.5	1.2, 1.3, 1.5, 6.6, 8.2	1.1.2, 1.6.6, 2.2.5, 5.2.2	1.1.2, 1.1.3, 1.2.1
NS. 5–8.2				
Physical Science				
CSI 5		CSI 6	CSI 7–8 Earth Science	CSI 7–8 Life Science
Properties and changes of properties in matter		6.1–6.6	1.5.2, 3.1.1	
Motions and forces	6.1–6.3, 8.3	8.5, 8.6	6.1.5	1.3.1, 1.3.6, 1.3.7, 1.5.1
Transfer of energy	6.4, 6.5, 8.4	4.1–4.4, 5.1–5.5, 5.7	4.2.1	4.1.1, 4.1.2
NS. 5–8.3				4.2.1–4.2.3
Life Science				
CSI 5		CSI 6	CSI 7–8 Earth Science	CSI 7–8 Life Science
Structure and function in living systems	2.1, 2.2, 2.5–2.7, 4.1, 4.2	2.1, 2.6, 3.1, 3.6, 8.2		1.3.1, 3.1.5, 5.1.1
Reproduction and heredity	2.4–2.7, 4.3	3.1, 3.6		5.3.6, 6.1.2, 6.1.9
Regulation and behavior	2.3	3.3–3.5, 3.7	2.2.6	3.2.4, 3.2.5, 5.3.5
Populations and ecosystems	5.4, 5.5	3.1, 3.2, 3.5, 3.9	1.6.1, 1.6.2, 3.1.5, 3.1.7, 2.2.6, 4.1.5, 4.3.2	7.1.2, 7.1.3, 7.1.5, 7.2.1, 7.2.6
Diversity and adaptations of organisms		3.1–3.5, 3.8	1.6.5, 2.2.1, 2.2.6	2.1.3, 2.2.3, 2.3.1, 2.4.3, 3.1.1, 3.2.4, 4.1.1–4.3.8
NS. 5–8.4				
Earth and Space Science				
CSI 5		CSI 6	CSI 7–8 Earth Science	CSI 7–8 Life Science
Structure of the earth system	6.2	7.1–7.8	1.2.1–1.6.6, 2.1.1–2.3.5, 3.1.1–3.2.7, 4.1.1–4.3.3	
Earth's history	7.6		1.5.7, 1.6.4, 1.6.6, 2.1.1, 2.1.2, 3.1.2, 3.1.5, 2.2.4, 6.1.1	
Earth in the solar system	6.1, 6.3, 6.4		6.1.1–6.4.4	

NS. 5–8.5		Science and Technology			
		CSI 5	CSI 6	CSI 7–8 Earth Science	CSI 7–8 Life Science
Abilities of technological design	6.7, 8.1, 8.2	4.3, 8.8, 8.9	3.1.3, 3.1.6, 4.2.1–4.2.3, 6.2.1, 6.4.1	6.2.1–6.2.4	4.3.4, 4.3.5, 6.1.4, 6.1.6, 6.2.4, 6.2.5
Understandings about science and technology		1.4, 4.3, 4.4, 5.3, 5.5, 5.7, 7.6, 7.8, 8.1, 8.3, 8.6–8.8	1.1.1, 1.6.6, 2.2.4, 2.2.5, 2.2.7, 3.1.6, 4.1.5, 4.2.10, 4.3.3, 5.1.3, 5.1.7, 6.1.2, 6.4.3	6.2.1, 6.2.4	5.6.3, 6.1.2, 6.1.4, 6.1.5, 6.2.2, 6.2.4
NS. 5–8.6		Personal and Social Perspectives			
Personal health	2.8, 2.9, 3.1–3.9	2.2–2.5, 2.8, 2.9	CSI 7–8 Earth Science	CSI 7–8 Life Science	CSI 7–8 Physical Science
Populations, resources, and environments	5.1, 5.2	4.3, 4.4, 5.5, 5.6, 7.4	1.2.5, 1.5.6, 1.6.3, 2.3.4, 3.1.1, 3.1.3, 3.1.6–3.1.8, 2.2.1, 2.2.6, 2.2.7, 4.1.2, 4.1.5, 4.3.1–4.3.3, 5.1.1–5.2.4	7.2.6, 7.4.1	
Natural hazards		4.3, 4.4, 5.2, 7.4	1.5.4, 2.1.3, 2.2.1–2.2.5, 2.3.1–2.3.5, 3.1.2, 3.1.8, 2.2.2, 2.2.7, 4.1.5, 4.2.8, 4.2.10, 4.3.3	7.4.3	5.5.1–5.1.3
Risks and benefits		2.7, 2.8, 4.3, 4.4, 5.2, 7.4	1.2.5, 1.5.5, 2.2.5, 3.1.6, 3.1.8, 2.2.6, 2.2.7, 4.1.5, 4.2.10, 4.3.3, 5.1.2, 5.1.3, 5.1.7, 5.2.1–5.2.4	5.4.3, 5.4.4	5.5.4
Science and technology in society	5.3	4.4, 5.5, 7.6, 7.8, 8.1, 8.3–8.8	1.1.5, 1.2.5, 1.6.6, 2.2.4, 2.2.5, 2.2.7, 2.3.5, 3.1.6, 3.1.8, 4.1.5, 4.2.2, 4.2.9, 4.2.10, 4.3.3, 5.1.1, 5.1.3, 5.1.7, 5.2.3, 6.1.2, 6.2.1, 6.4.1–6.4.4	6.1.8, 6.2.1–6.2.4	5.4.4, 5.4.8, 5.4.11, 5.5.4, 5.6.3
NS. 5–8.7		History and Nature of Science			
Science as a human endeavor	6.6, 8.5–8.7	1.1, 1.5, 5.7, 6.1, 7.2	CSI 7–8 Earth Science	CSI 7–8 Life Science	CSI 7–8 Physical Science
Nature of science		1.2, 1.5, 4.2, 6.2, 8.6	1.1.4, 1.4.1–1.4.3, 1.6.4, 1.6.5, 2.1.2, 2.2.4, 2.2.5, 2.2.7, 4.1.4, 4.2.2, 4.2.5, 4.2.9, 4.3.3, 6.1.1, 6.1.3, 6.2.1, 6.3.4, 6.4.2	1.3.1, 1.4.2	2.3.2, 5.4.5
History of science	6.8	2.4, 3.1, 3.2, 4.2, 5.1, 5.7, 6.1, 6.5, 7.7, 8.5	1.2.3, 1.6.4, 1.6.6, 2.2.5, 4.3.3	1.1.1–1.1.3	1.1.2, 1.1.3
			1.2.5, 2.2.5, 3.1.1, 4.1.4, 4.2.5, 5.1.5, 6.1.1, 6.1.3, 6.1.4, 6.1.8	1.4.1	1.4.1, 1.4.3, 2.1.1, 5.5.1, 5.5.2