

(v2.1) OnTRACK Grade 8 Science

Module	Lesson Title and Descriptor	TEKS
0 Scientific Investigation and Reasoning	Scientific Investigation and Reasoning – Safe Practices	8.1A
	Safety Equipment	8.4B
	Conservation of Resources	8.1B
	Planning Comparative and Descriptive Investigations	8.2A
	Planning Comparative and Experimental Investigations	8.2B
	Tools and Technology	8.4A 8.2A 8.2B
	Measurement	8.2C
	Data Organization	8.2D
	Data Analysis	8.2E
	Scientific Explanations	8.3A
	Models	8.3B 8.3C
	Contribution of Scientists	8.3D
	1 Matter and Energy	Atomic Structure
Elements vs. Compounds		6.5A 6.5C
Elemental Properties		8.5B
Metals, Nonmetals and Metalloids		6.6A
Periodic Table		8.5C
Chemical Formulas		8.5D
Chemical Reactions		8.5E 6.5D
Chemical Equations		8.5F
Density		6.6B
2 Force, Motion, and Energy	Potential and Kinetic Energy	6.8A
	Energy Transformations	6.9C
	Speed, Velocity and Acceleration	8.6B
	Average Speed	6.8C
	Changes in Motion	6.8D
	Changes in Speed and Direction	6.8B 8.6A
	Work and Force	7.7A

	Newton's Laws-Inertia	8.6C
	Newton's Laws-Force and Acceleration	8.6C
	Newton's Laws- Action-Reaction	8.6C
3 Earth and Space	Earth Rotation and Revolution	8.7A
	Gravity	6.11B
	The Moon: Lunar Cycle and Tides	8.7B 8.7C
	Components of the Universe	8.8A 8.8B
	Electromagnetic Spectrum Introduction	8.8C
	Electromagnetic Spectrum and Components of the Universe	8.8C
	Light Year	8.8D
	Plate Tectonics	6.10A-D 8.9A 8.9B
	Maps and Satellite Imagery	8.9C
	The Sun and Convection Currents	8.10A
	Atmospheric Movement	8.10B
	Oceans and Weather Systems	8.10C
	4 Organisms and Environments	Organisms Interactions
Competition for Abiotic and Biotic Factors		8.11B
Environmental Changes		8.11C
Human and Ocean Systems		8.11D