

STANDARD	BENCHMARK	ORGANIZER	VOCABULARY WORD
1: Earth and Space Science	A. Explain how evidence fro	I. The Universe	stars
1: Earth and Space Science	A. Explain how evidence fro	I. The Universe	energy
1: Earth and Space Science	A. Explain how evidence fro	I. The Universe	nuclear reactions
1: Earth and Space Science	A. Explain how evidence fro	I. The Universe	elements
1: Earth and Space Science	A. Explain how evidence fro	I. The Universe	universe
1: Earth and Space Science	A. Explain how evidence fro	I. The Universe	Big Bang
1: Earth and Space Science	A. Explain how evidence fro	I. The Universe	gravitational force
1: Earth and Space Science	A. Explain how evidence fro	I. The Universe	planet
1: Earth and Space Science	A. Explain how evidence fro	I. The Universe	comet
1: Earth and Space Science	A. Explain how evidence fro	I. The Universe	asteroid
1: Earth and Space Science	A. Explain how evidence fro	I. The Universe	Solar System
1: Earth and Space Science	B. Explain that many proces	II. The Earth System	ocean
1: Earth and Space Science	B. Explain that many proces	II. The Earth System	lithosphere
1: Earth and Space Science	B. Explain that many proces	II. The Earth System	atmosphere
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	conduction
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	convection
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	density
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	plate boundaries
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	transform boundary
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	divergent boundary
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	convergent boundary
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	ocean trench
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	sea floor spreading
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	continental drift
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	plate tectonics
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	magma
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	igneous intrusion
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	metamorphism
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	earthquake
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	faulting
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	folding
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	fossil distributions
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	magnetic reversals
1: Earth and Space Science	C. Explain the processes th	III. Processes That Shape the Earth	radiometric dating
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	matter
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	atom
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	element
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	protons
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	mass
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	neutrons
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	isotopes
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	charge
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	electron
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	neutral
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	radioactive
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	nuclei
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	nuclear decay
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	radiation
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	atomic number
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	physical property
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	chemical property
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	family
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	periodic table

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3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	electron configurations
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	matter
3: Physical Sciences	A. Describe that matter is m	I. Nature of Matter	conservation of energy
3: Physical Sciences	B. Explain how atoms react	I. Nature of Matter	molecule
3: Physical Sciences	B. Explain how atoms react	I. Nature of Matter	ion
3: Physical Sciences	B. Explain how atoms react	I. Nature of Matter	bond
3: Physical Sciences	B. Explain how atoms react	I. Nature of Matter	ionic bond
3: Physical Sciences	B. Explain how atoms react	I. Nature of Matter	covalent bond
3: Physical Sciences	B. Explain how atoms react	I. Nature of Matter	chemical reaction
3: Physical Sciences	B. Explain how atoms react	I. Nature of Matter	chemical formula
3: Physical Sciences	B. Explain how atoms react	I. Nature of Matter	balanced chemical equations
3: Physical Sciences	B. Explain how atoms react	I. Nature of Matter	conservation of mass
3: Physical Sciences	B. Explain how atoms react	I. Nature of Matter	electric force
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	pH scale
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	solution
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	acid
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	basic
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	neutral
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	pure substances
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	mixtures
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	density
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	conductivity
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	hardness
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	alloy
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	superconductor
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	semiconductor
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	color
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	ductility
3: Physical Sciences	C. Describe the identifiable	I. Nature of Matter	concentration
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	Newton's three laws of motion
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	force
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	frame of reference
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	position
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	velocity
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	acceleration
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	time
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	unbalanced force
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	net force
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	1st Law of Motion
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	2nd Law of Motion
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	weight
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	3rd Law of motion
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	frictional forces
3: Physical Sciences	D. Explain the movement of	II. Forces and Motion	inertia
3: Physical Sciences	E. Demonstrate that energy	III. Nature of Energy	thermal energy
3: Physical Sciences	E. Demonstrate that energy	III. Nature of Energy	kinetic energy
3: Physical Sciences	E. Demonstrate that energy	III. Nature of Energy	potential energy
3: Physical Sciences	E. Demonstrate that energy	III. Nature of Energy	gravitational potential energy
3: Physical Sciences	F. Explain how energy may	III. Nature of Energy	nuclear reactions
3: Physical Sciences	F. Explain how energy may	III. Nature of Energy	fission
3: Physical Sciences	F. Explain how energy may	III. Nature of Energy	fusion
3: Physical Sciences	F. Explain how energy may	III. Nature of Energy	transformation of energy
3: Physical Sciences	F. Explain how energy may	III. Nature of Energy	conservation of energy

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3: Physical Sciences	F. Explain how energy may	III. Nature of Energy	endothermic
3: Physical Sciences	F. Explain how energy may	III. Nature of Energy	exothermic
3: Physical Sciences	F. Explain how energy may	III. Nature of Energy	conduction
3: Physical Sciences	F. Explain how energy may	III. Nature of Energy	convection
3: Physical Sciences	F. Explain how energy may	III. Nature of Energy	radiation
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	electromagnetic radiation
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	wave
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	visible light
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	radio waves
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	microwaves
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	infrared
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	visible light
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	ultraviolet
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	x-rays
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	gamma rays
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	medium
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	refraction
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	reflection
3: Physical Sciences	G. Demonstrate that waves	III. Nature of Energy	absorption
3: Physical Sciences	H. Summarize the historical	IV. Historical Perspectives and Scientifi	atomic theory
3: Physical Sciences	H. Summarize the historical	IV. Historical Perspectives and Scientifi	quantum theory
3: Physical Sciences	H. Summarize the historical	IV. Historical Perspectives and Scientifi	Newtonian mechanics
3: Physical Sciences	H. Summarize the historical	IV. Historical Perspectives and Scientifi	nuclear energy
3: Physical Sciences	H. Summarize the historical	IV. Historical Perspectives and Scientifi	nanotechnology
3: Physical Sciences	H. Summarize the historical	IV. Historical Perspectives and Scientifi	plastics
3: Physical Sciences	H. Summarize the historical	IV. Historical Perspectives and Scientifi	ceramics
4: Science and Technology	A. Explain that science and	I. Understanding Technology	technology
4: Science and Technology	A. Explain that science and	II. Abilities to Do Technical Design	technical design
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	observations
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	inferences
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	hypotheses
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	procedures
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	controls
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	independent variable
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	dependent variable
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	safety precautions
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	system
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	logic
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	precision
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	data
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	significant figures
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	graph
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	table
5: Scientific Inquiry	A. Participate in and apply p	I. Doing Scientific Inquiry	map
6: Scientific Ways of Knowing	A. Explain that scientific kno	I. Nature of Science	evidence
6: Scientific Ways of Knowing	A. Explain that scientific kno	I. Nature of Science	lab report
6: Scientific Ways of Knowing	A. Explain that scientific kno	I. Nature of Science	prediction
6: Scientific Ways of Knowing	B. Explain how scientific inq	II. Scientific Theories	scientific theory
6: Scientific Ways of Knowing	B. Explain how scientific inq	II. Scientific Theories	inquiry
6: Scientific Ways of Knowing	C. Describe the ethical prac	III. Ethical Practices	ethics
6: Scientific Ways of Knowing	D. Recognize that scientific	IV. Science and Society	scientific literacy