

Ohio Graduation Tests

Item Distribution Across Standards

Science

Points assigned to each standard and benchmark

STANDARD/Benchmarks		Practice Test/04	March 2005	March 2006	March 2007
EARTH & SPACE SCIENCE		11	12	12	12
Evidence from stars informs changes in universe	A	0	1	1	0
Processes occur in patterns in earth's systems	B	3	8	3	2
History of earth based on geologic records	C	1	0	1	0
Human impact on earth's resources	D	0	2	4 E	7 E
Processes that move, shape earth's surface	E	7 E	1	2	1
	F	0	0	1	2
PHYSICAL SCIENCE		12	12	12	12
Atom Characteristics	A	4 S	1	1	0
Reactions of atoms and molecules	B	1	1	0	3 S
Phys. Properties of substances; impact of changes	C	1	1	1	5
Newton's Law of Motion	D	0	4	5 S	2
Kinetic/potential energy	E	0	3	1	0
Energy may change form; total quantity preserved	F	5	1	2	1
Waves & energy	G	1	1	1	1
Trace development of theories related to Phys. Sc.	H	0	0	1	0
LIFE SCIENCE		11	12	12	12
Cells	A	1	1	1	0
Characteristics of life; cell division; c development	B	1	1	0	0
Genetic mechanisms, molecular basis of inheritance	C	5 S	7	1	0
Energy through biological and ecological systems	D	1	0	1	3
Evolutionary relationships	E	1	1	0	2
Ecosystems	F	2	1	4	5 S
Human activities impact on natural systems	G	0	0	2 S	1
Biological evolution	H	0	0	3	1
Evolutionary mechanisms	I	0	0	0	0
Summarize hst. Development of issues rel. to Life Sc.	J	0	1	0	0

"S" indicates that a 2 point short answer is included in this point total.

"E" indicates that a 4 point extended response is included in this point total.

Prepared by Testing/KF
August 2007

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SCIENTIFIC WAY OF KNOWING		3	5	3	5
Characteristics of scientific knowledge	A	2 S	0	1	0
Knowledge, observations, ideas guide Sc. Inquiry	B	0	0	0	0
Ethical practices/guidelines of science	C	1	0	2 S	5 E
Scientific inquiry part of knowledgeable citizen	D	0	5	0	0
SCIENCE & TECHNOLOGY		5	4	5	3
Technological design; response to needs of society	A	1	1	1	0
Interdependence of science and technology	B	4 E	3	4 E	3 S
SCIENTIFIC INQUIRY		4	3	4	4
Apply scientific investigation; communicate results	A	4 S	3	4 S	4 S
TOTAL		46	48	48	48

"S" indicates that a 2 point short answer is included in this point total.

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