




Science




Grade 11

Scoring Protocol




2017-2018

Item 1	Option:	A	B	C	Correct	Scoring (0/1)
M - Here are three objects. (Point to answer choices.) Which can you use to send a digital text message: television, pencil, or smartphone?		 television	 pencil	 smartphone	c	




Scoring: 0 = incorrect; 1 = correct

Item 2	Option:	A	B	C	Correct	Scoring (0/1)
H - This is Ann. (Point to girl in prompt.) Which could she use to email her friends: laptop, radio, or microwave?		 laptop	 radio	 microwave	a	




Scoring: 0 = incorrect; 1 = correct

Item 3	Option:	A	B	C	Correct	Scoring (0/1)
M - Here are three plants. (Point to plants.) During photosynthesis, plants use light, air, and water to make food. Which of these plants will grow the tallest, the one given: water, soda, or salt?		 water	 soda	 salt	a	




Scoring: 0 = incorrect; 1 = correct

Item 4	Option:	A	B	C	Correct	Scoring (0/1)
L - Here are three pictures. (Point to answer choices.) Which gives the Earth light energy: the Sun, apple, or microwave?		 Sun	 apple	 microwave	a	

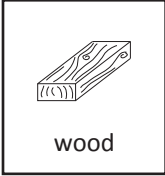


Scoring: 0 = incorrect; 1 = correct

Item 5	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a tree. (Point to tree in prompt.) Which animal has adapted to reach the leaves of tall trees: zebra, giraffe, or coyote?		 zebra	 giraffe	 coyote	b	

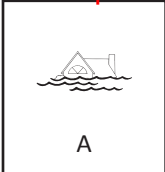
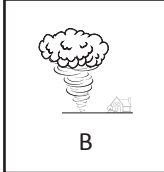

Scoring: 0 = incorrect; 1 = correct

Item 6	Option:	A	B	C	Correct	Scoring (0/1)
L - Here is a gorilla. (Point to gorilla.) Which trait helps the gorilla pick and eat plants: beak, hands, or trunk?		 beak	 hands	 trunk	b	

Scoring: 0 = incorrect; 1 = correct

Item 7	Option:	A	B	C	Correct	Scoring (0/1)
L - Here are three objects. (Point to objects.) Which object is the hardest: wood, strawberry, or sock?					a	

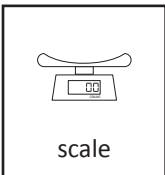
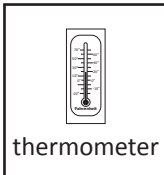

Scoring: 0 = incorrect; 1 = correct

Item 8	Option:	A	B	C	Correct	Scoring (0/1)
M - Here are three natural disasters. (Point to answer choices.) Which shows a flood: A, B, or C?	question omitted				a	

Scoring: 0 = incorrect; 1 = correct

Item 9	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a lake at different times of the year. (Point to prompt.) At which time of the year is the temperature of the lake the coldest: spring, summer, or winter?		spring	summer	winter	c	

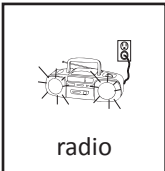
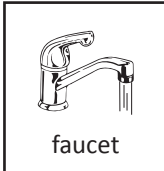

Scoring: 0 = incorrect; 1 = correct

Item 10	Option:	A	B	C	Correct	Scoring (0/1)
L - Here are three tools. (Point to answer choices.) Which is used to measure temperature: scale, thermometer, or screwdriver?					b	

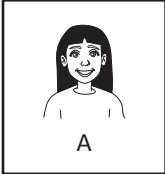
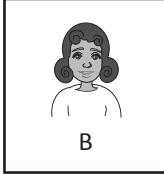
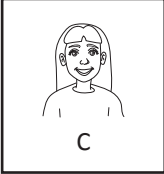
Scoring: 0 = incorrect; 1 = correct

Item 11	Option:	A	B	C	Correct	Scoring (0/1)
M - Three schools wanted to help the Earth. Here is a graph showing school recycling. (Point to graph in prompt.) Which school recycled the most trash: A, B, or C?		A	B	C	a	


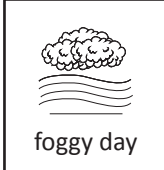

Scoring: 0 = incorrect; 1 = correct

Item 12	Option:	A	B	C	Correct	Scoring (0/1)
H - Here are three pictures. (Point to answer choices.) Which shows electricity being converted to sound energy: radio, faucet, or light bulb?					a	

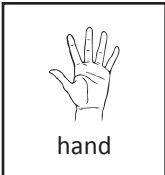
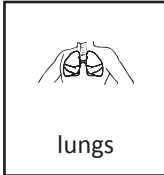
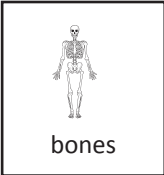
Scoring: 0 = incorrect; 1 = correct

Item 13	Option:	A	B	C	Correct	Scoring (0/1)
H - Here are two parents. (Point to people.) Which is the parents' likely offspring: A, B, or C?	question omitted				b	


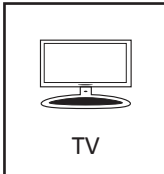

Scoring: 0 = incorrect; 1 = correct

Item 14	Option:	A	B	C	Correct	Scoring (0/1)
H - Here are three pictures. (Point to answer choices.) Which is a natural disaster that can harm humans and their property: sunny weather, foggy day, or a forest fire?					c	

Scoring: 0 = incorrect; 1 = correct

Item 15	Option:	A	B	C	Correct	Scoring (0/1)
H - The respiratory system helps humans breathe. (Point to prompt picture.) Which is part of the respiratory system: hand, lungs, or bones?					b	




Scoring: 0 = incorrect; 1 = correct

Item 16	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a person who cannot speak out loud. (Point to prompt.) Which technology could help people who cannot speak: book, TV, or talking computer?					c	

Scoring: 0 = incorrect; 1 = correct

Item 17	Option:	A	B	C	Correct	Scoring (0/1)
H - This oven is transferring heat energy to a pizza. (Point to pizza in oven.) What will happen to the temperature of the pizza, will it get: hotter, colder, or stay the same?		hotter	colder	stay same	a	

Scoring: 0 = incorrect; 1 = correct

Item 18	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a person who cannot see very well. (Point to prompt.) Which technology could help people who cannot see well: radio, hearing aid, or glasses?					c	

Scoring: 0 = incorrect; 1 = correct

Item 19                      Option:              A                      B                      C                      Correct              Scoring (0/1)

H - Megan kicks a soccer ball and it moves 10 meters. (Point to girl in prompt). If Megan kicks the ball with more force, how many meters will the ball probably go: 5, 10, or 15?

Scoring: 0 = incorrect; 1 = correct

5 meters

10 meters

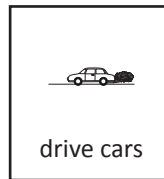
15 meters

c

Item 20                      Option:              A                      B                      C                      Correct              Scoring (0/1)

M - Here are three activities. (Point to prompt.) What is one way to keep the air clean: ride bicycles, light campfires, or drive cars?

Scoring: 0 = incorrect; 1 = correct

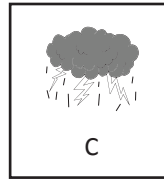
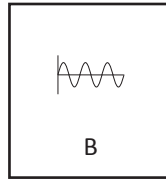
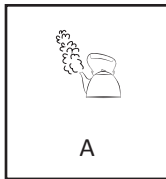


a

Item 21                      Option:              A                      B                      C                      Correct              Scoring (0/1)

L - Here are three pictures. (Point to answer choices.) Which shows a sound wave: A, B, or C?

Scoring: 0 = incorrect; 1 = correct

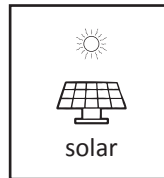
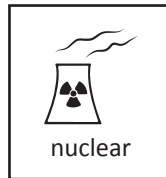
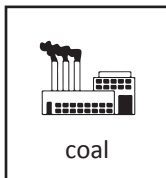


b

Item 22                      Option:              A                      B                      C                      Correct              Scoring (0/1)

H - Oil creates energy, but also pollutes the Earth. (Point to prompt.) Which is an energy resource that creates less pollution: coal, nuclear, or solar?

Scoring: 0 = incorrect; 1 = correct

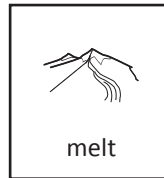
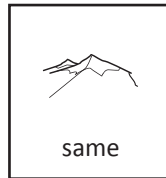


c

Item 23                      Option:              A                      B                      C                      Correct              Scoring (0/1)

H - Here is a mountain covered with snow. (Point to prompt.) When it gets warm outside what will happen to the snow, will it: freeze, stay the same, or melt away?

Scoring: 0 = incorrect; 1 = correct



c

Item 24                      Option:              A                      B                      C                      Correct              Scoring (0/1)

H - This is a graph of the amount of food three dogs eat each week. (Point to prompt.) Which dog will likely grow the most: A, B, or C?


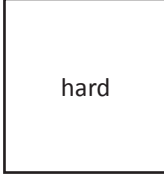

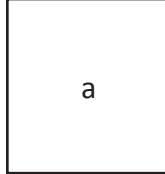
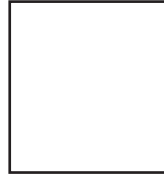
Scoring: 0 = incorrect; 1 = correct

A


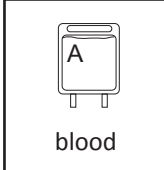

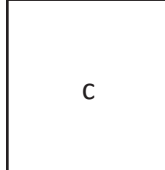

B

C

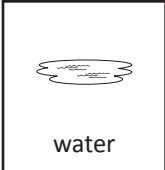
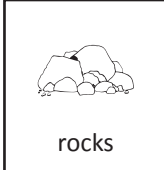
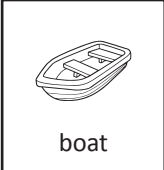
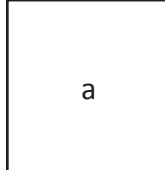

c

Item 25	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is some yarn and a feather pillow. (Point to the prompt.) Which property do the yarn and pillow share: soft, hard, or metallic?						

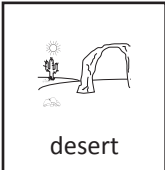


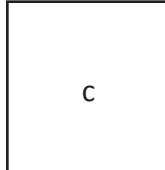
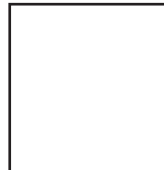
Scoring: 0 = incorrect; 1 = correct

Item 26	Option:	A	B	C	Correct	Scoring (0/1)
H - This is the human skeleton. (Point to prompt.) What is the skeletal system made of: skin, blood, or bones?						


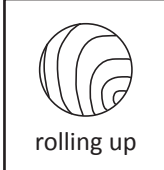

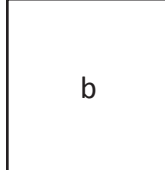

Scoring: 0 = incorrect; 1 = correct

Item 27	Option:	A	B	C	Correct	Scoring (0/1)
L - This is a tiger. (Point to tiger.) What do tigers need to survive: water, rocks, or boat?						


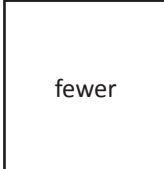
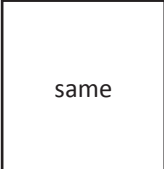
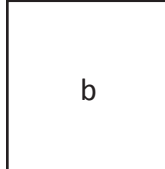

Scoring: 0 = incorrect; 1 = correct

Item 28	Option:	A	B	C	Correct	Scoring (0/1)
H - Here are three places. (Point to prompt.) Which might have been formed by a volcano: a desert, a river, or an island?						


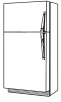
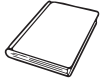
Scoring: 0 = incorrect; 1 = correct

Item 29	Option:	A	B	C	Correct	Scoring (0/1)
L - This is a potato bug. (Point to prompt.) Which helps a potato bug survive: sharp teeth, rolling up in a ball, or long legs?						




Scoring: 0 = incorrect; 1 = correct

Item 30	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a food chain. (Point to food chain in prompt.) What would happen to the number of foxes if there were no more plants for the rabbits to eat, would there be: more, fewer, or the same number of foxes?						




Scoring: 0 = incorrect; 1 = correct

Item 31	Option:	A	B	C	Correct	Scoring (0/1)
L - Here are three objects. (Point to answer choices.) Which takes the most force to move: pillow, refrigerator, or book?		 pillow	 refrigerator	 book	b	




Scoring: 0 = incorrect; 1 = correct

Item 32	Option:	A	B	C	Correct	Scoring (0/1)
H - This is the water cycle. (Point to the prompt.) Which shows liquid water falling to Earth: A, B, or C?	question omitted	 A	 B	 C	b	




Scoring: 0 = incorrect; 1 = correct

Item 33	Option:	A	B	C	Correct	Scoring (0/1)
L - Here are three objects. (Point to answer choices.) Natural resources are helpful things that come from the Earth. Which is a natural resource: trees, cars, or plastic?		 trees	 cars	 plastic	a	

Scoring: 0 = incorrect; 1 = correct

Item 34	Option:	A	B	C	Correct	Scoring (0/1)
H - Here are three pictures. (Point to answer choices.) Which can destroy buildings and vehicles: riding bikes, earthquakes, or driving cars?		 riding bikes	 earthquakes	 driving cars	b	

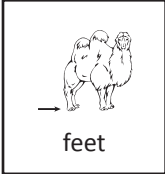
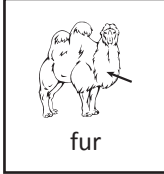
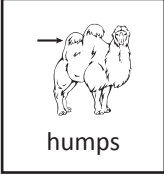
Scoring: 0 = incorrect; 1 = correct

Item 35	Option:	A	B	C	Correct	Scoring (0/1)
H - The International Space Station orbits the Earth. (Point to picture of ISS in prompt.) Which force holds the space station in orbit around the Earth: gravity, wind, or electricity?		 gravity	 wind	 electricity	a	

Scoring: 0 = incorrect; 1 = correct

Item 36	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is an ice cube tray full of water. (Point to prompt.) If the tray is frozen, how will the mass change, will it be: more, less, or the same?		more	less	same	c	

Scoring: 0 = incorrect; 1 = correct

Item 37	Option:	A	B	C	Correct	Scoring (0/1)
H - This is a camel. (Point to prompt.) Which adaptation do camels use to store food and water in the desert: feet, fur, or humps?		 feet	 fur	 humps	c	




Scoring: 0 = incorrect; 1 = correct

Item 38	Option:	A	B	C	Correct	Scoring (0/1)
H - These are melting ice cubes. (Point to prompt.) What type of change does this show: physical, chemical, or no change?		physical	chemical	no change	a	




Scoring: 0 = incorrect; 1 = correct

Item 39	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a brick wall and a stone wall. (Point to prompt.) Which property do the walls share: wooden, metallic, or hard?		wooden	metallic	hard	c	

Scoring: 0 = incorrect; 1 = correct

Item 40	Option:	A	B	C	Correct	Scoring (0/1)
L - This is the Sun, Earth, and Moon. (Point to prompt.) Which orbits the Sun due to gravity: the Earth, stars, or trees?		 Earth	 stars	 trees	a	

Scoring: 0 = incorrect; 1 = correct

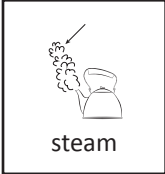
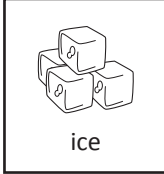

Item 41	Option:	A	B	C	Correct	Scoring (0/1)
M - Here are three Earth features. (Point to answers.) Which Earth feature is associated with volcanic eruptions: mountain, stream, or canyon?		 mountain	 stream	 canyon	a	

Scoring: 0 = incorrect; 1 = correct

Item 42	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a food chain. (Point to prompt.) What would happen to the number of different hawks if there were no rats: would there be the same, more, or fewer types of hawks?		same	more	fewer	c	

Scoring: 0 = incorrect; 1 = correct



Item 43	Option:	A	B	C	Correct	Scoring (0/1)
L - Here are three objects. (Point to answer choices.) Which shows water as a vapor: steam, ice, or bicycle?		 steam	 ice	 bicycle	a	

Scoring: 0 = incorrect; 1 = correct

Item 44	Option:	A	B	C	Correct	Scoring (0/1)
M - Here is Raheem and his wagon. (Point to the prompt.) If we add rocks to the wagon, how much force will Raheem need to use to pull his wagon: more, less, or the same?		more	less	same	a	

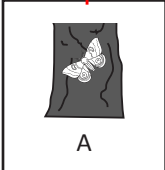

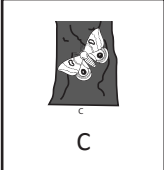
Scoring: 0 = incorrect; 1 = correct

Item 45	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a food chain. (Point to food chain in prompt.) What would happen to the number of foxes if there were no more rabbits, would there be: fewer, more, or the same number of foxes?		fewer	more	same	a	

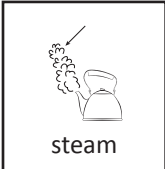

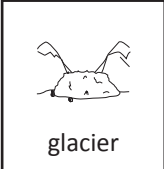
Scoring: 0 = incorrect; 1 = correct

Item 46	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a forest. (Point to the forest.) Many different kinds of animals live in this forest. What would happen to the number of different animals in the forest if the trees were cut down, would there be: more, fewer, or the same kinds of animals?		more	fewer	same	b	

Scoring: 0 = incorrect; 1 = correct

Item 47	Option:	A	B	C	Correct	Scoring (0/1)
H - These moths have three offspring in the forest. (Point to moths in prompt.) Which offspring would survive the best on trees with dark-colored bark: A, B, or C?	question omitted	 A	 B	 C	b	

Scoring: 0 = incorrect; 1 = correct

Item 48	Option:	A	B	C	Correct	Scoring (0/1)
M - Here are three forms of water. (Point to answer choices.) Which shows water as a solid: steam, lake, or glacier?		 steam	 lake	 glacier	c	

Scoring: 0 = incorrect; 1 = correct