

Science

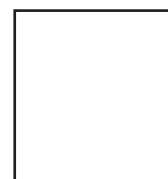
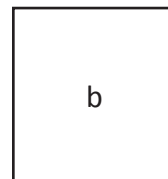
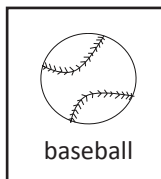
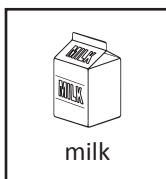
Grade 8

Scoring Protocol

2017-2018

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

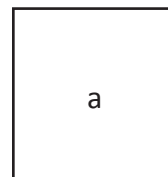
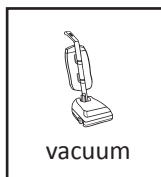
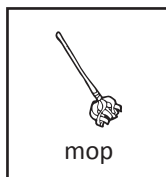
L - Here is some grass. (Point to prompt.) Grass is a plant. Which does the grass need to grow: milk, water, or baseball?



Scoring: 0 = incorrect; 1 = correct

Item 2 Option: A B C Correct Scoring (0/1)

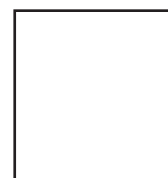
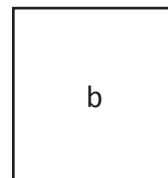
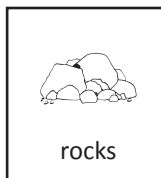
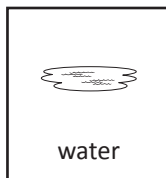
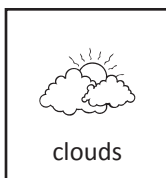
M - A nail is sticking out of the floor and this is a problem. (Point to nail.) Which tool can you use to solve this problem: hammer, mop, or vacuum?



Scoring: 0 = incorrect; 1 = correct

Item 3 Option: A B C Correct Scoring (0/1)

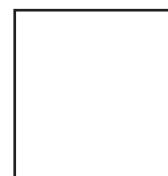
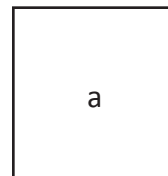
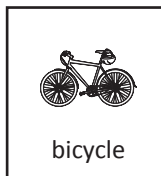
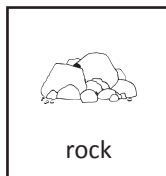
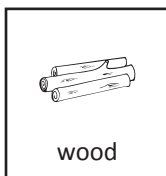
M - This is a lizard in the desert. (Point to lizard.) What can the lizard drink to survive: clouds, water, or rocks?



Scoring: 0 = incorrect; 1 = correct

Item 4 Option: A B C Correct Scoring (0/1)

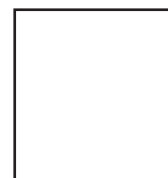
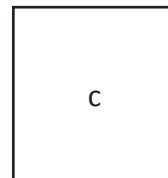
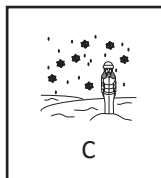
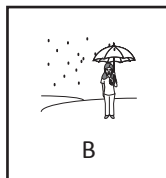
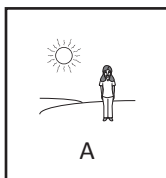
M - Here is a fire. (Point to fire in prompt.) Which natural resource can you burn for heat: wood, rock, or bicycle?



Scoring: 0 = incorrect; 1 = correct

Item 5 Option: A B C Correct Scoring (0/1)

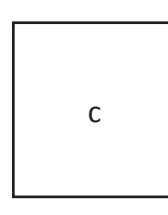
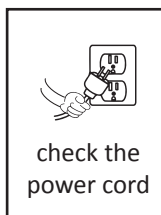
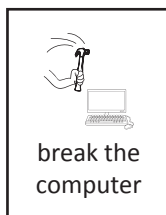
M - Here are three pictures of the outdoors. (Point to answer choices.) Which day had the coldest temperature: A, B, or C?





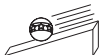
Scoring: 0 = incorrect; 1 = correct

Item 6 Option: A B C Correct Scoring (0/1)




H - Julie's computer will not turn on. (Point to student materials.) Which shows a good first step to solve this problem: throw the computer away, break the computer, or check the power cord?



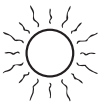

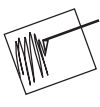
Scoring: 0 = incorrect; 1 = correct

Item 7	Option:	A	B	C	Correct	Scoring (0/1)
L - This is a ball. (Point to ball.) Which shows the ball moving down a ramp: A, B, or C?					c	
	question omitted	A	B	C		




Scoring: 0 = incorrect; 1 = correct

Item 8	Option:	A	B	C	Correct	Scoring (0/1)
M - Here is Sofia. (Point to girl.) Which will happen when Sofia pushes the shopping cart: A, B, or C?					b	
	question omitted	A	B	C		




Scoring: 0 = incorrect; 1 = correct

Item 9	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a large crack in the Earth. (Point to the crack.) Which process formed this large crack in the Earth: Sun, rain, or an earthquake?					c	
		Sun	rain	earthquake		




Scoring: 0 = incorrect; 1 = correct

Item 10	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a car. (Point to the prompt.) Which material is the strongest for building cars: paper, wood, or metal?					c	
	no picture	paper	wood	metal		


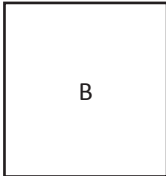
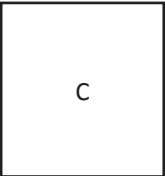
Scoring: 0 = incorrect; 1 = correct

Item 11	Option:	A	B	C	Correct	Scoring (0/1)
M - This is Tom. (Point to boy.) Which would give Tom energy to ride his bike: bananas, pencil, or glasses?					a	
		bananas	pencil	glasses		

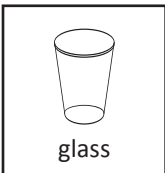
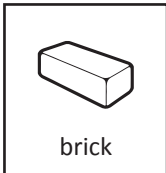

Scoring: 0 = incorrect; 1 = correct

Item 12	Option:	A	B	C	Correct	Scoring (0/1)
M - Here are three objects in outer space. (Point to objects.) Which object in space is the Earth: A, B, or C?					a	
	question omitted	A	B	C		




Scoring: 0 = incorrect; 1 = correct

Item 13	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a graph. (Point to graph in prompt.) Which city uses the most water: A, B, or C?					c	

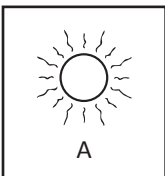
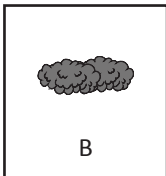
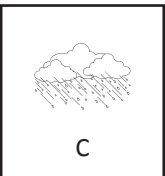
Scoring: 0 = incorrect; 1 = correct

Item 14	Option:	A	B	C	Correct	Scoring (0/1)
M - Here are three objects. (Point to answer choices.) Flammable means something can burn. Which object is flammable: glass, brick, or wood?		 glass	 brick	 wood	c	


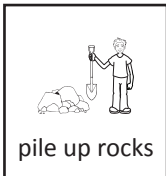

Scoring: 0 = incorrect; 1 = correct

Item 15	Option:	A	B	C	Correct	Scoring (0/1)
H - Talia needs a strong bucket and is looking at a graph for help. (Point to girl and graph.) Which metal is the strongest for making a bucket: copper, aluminum, or steel?					c	




Scoring: 0 = incorrect; 1 = correct

Item 16	Option:	A	B	C	Correct	Scoring (0/1)
H - Here are three pictures. (Point to answer choices.) Which shows wet weather: A, B, or C?	question omitted	 A	 B	 C	c	

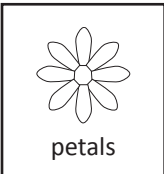
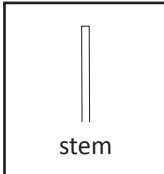

Scoring: 0 = incorrect; 1 = correct

Item 17	Option:	A	B	C	Correct	Scoring (0/1)
L - Paul wants to protect the Earth. (Point to boy in prompt.) How could Paul help the Earth: throw a football, pile up rocks, or clean up trash?		 throw a foot- ball	 pile up rocks	 clean up trash	c	


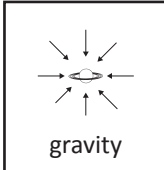

Scoring: 0 = incorrect; 1 = correct

Item 18	Option:	A	B	C	Correct	Scoring (0/1)
H - This is a fossilized footprint of a dinosaur. (Point to footprint.) Which footprint is most similar to the dinosaur: dog, person, or lizard?		 dog	 person	 lizard	c	

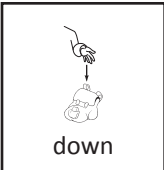
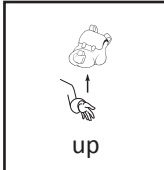
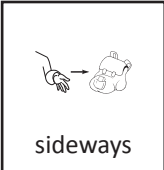
Scoring: 0 = incorrect; 1 = correct

Item 19	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a flower. (Point to the prompt.) Which part of this flower takes in water from the soil: petals, stem, or roots?		 petals	 stem	 roots	c	


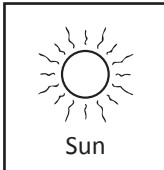

Scoring: 0 = incorrect; 1 = correct

Item 20	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is the planet Saturn. Saturn has rings made of ice and dust. (Point to the prompt.) Which force keeps Saturn's rings in orbit: magnetic, gravity, or wind?		 magnetic	 gravity	 wind	b	




Scoring: 0 = incorrect; 1 = correct

Item 21	Option:	A	B	C	Correct	Scoring (0/1)
L - Here is a backpack. (Point to student materials.) Which way does the backpack go when dropped: down, up, or sideways?		 down	 up	 sideways	a	



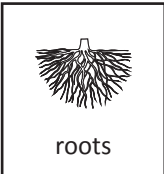
Scoring: 0 = incorrect; 1 = correct

Item 22	Option:	A	B	C	Correct	Scoring (0/1)
H - This building and street are cracked. (Point to student materials.) Which likely caused the cracks: an earthquake, the Sun, or a motorcycle?		 earthquake	 Sun	 motorcycle	a	

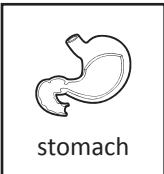
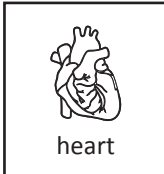
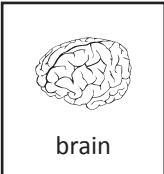
Scoring: 0 = incorrect; 1 = correct

Item 23	Option:	A	B	C	Correct	Scoring (0/1)
L - Here is a canyon. (Point to the prompt.) Which can make a canyon: tree, river, or dog?		 tree	 river	 dog	b	

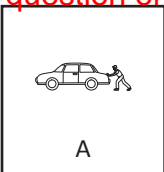
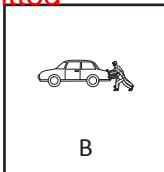
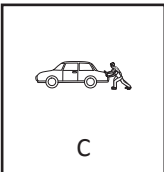
Scoring: 0 = incorrect; 1 = correct

Item 24	Option:	A	B	C	Correct	Scoring (0/1)
H - This diagram shows photosynthesis. (Point to prompt.) During photosynthesis, plants use light energy, water, and air to make food. Which part of the plant takes in water to grow: flower, leaves, or roots?		 flower	 leaves	 roots	c	

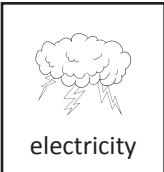
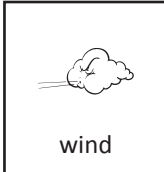
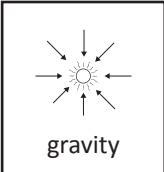
Scoring: 0 = incorrect; 1 = correct

Item 25	Option:	A	B	C	Correct	Scoring (0/1)
H - This is Maria. (Point to the picture of the girl.) Which body part digests the food Maria eats: stomach, heart, or brain?		 stomach	 heart	 brain	a	

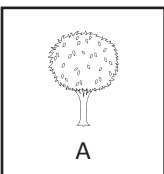
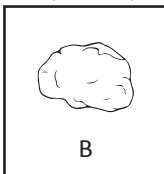
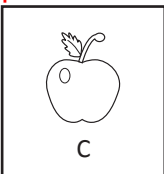
Scoring: 0 = incorrect; 1 = correct

Item 26	Option:	A	B	C	Correct	Scoring (0/1)
H - Here are three pictures. (Point to prompt.) Which shows people applying the most force on the car: A, B, or C?	question omitted	 A	 B	 C	b	


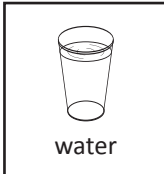

Scoring: 0 = incorrect; 1 = correct

Item 27	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a comet, Earth, and the Sun. (Point to the prompt.) Which forces comets to orbit the Sun: electricity, wind, or gravity?		 electricity	 wind	 gravity	c	


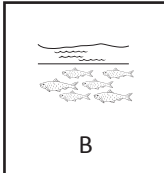
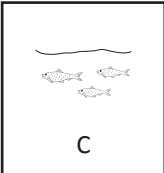
Scoring: 0 = incorrect; 1 = correct

Item 28	Option:	A	B	C	Correct	Scoring (0/1)
H - This is a book. (Point to book.) What resource are books made from: A, B, or C?	words "trees, rock, apple" substituted for pictures	 A	 B	 C	a	

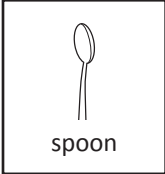
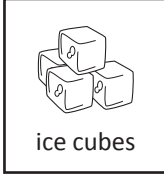

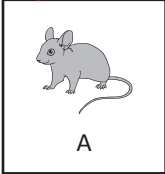
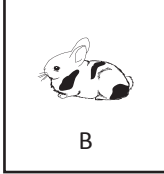
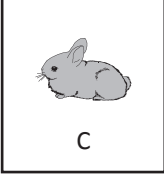
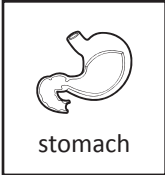
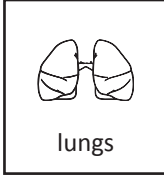
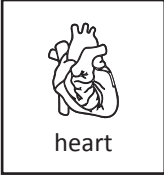
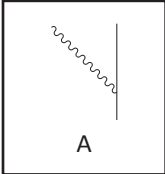
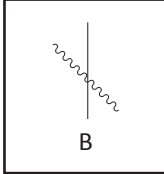
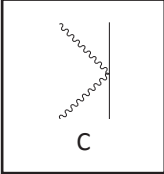
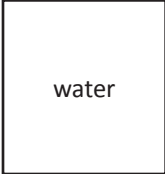
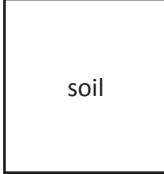
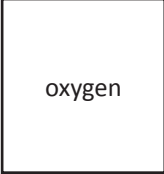



Scoring: 0 = incorrect; 1 = correct


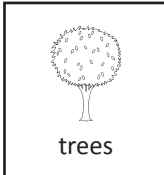
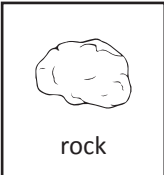
Item 29	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is Steff. (Point to the girl.) Steff needs energy for running. Which should she eat to get the most energy: fruit, water, or dirt?		 fruit	 water	 dirt	a	

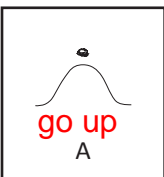
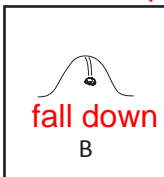
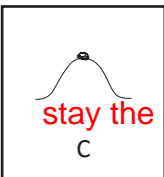
Scoring: 0 = incorrect; 1 = correct




Item 30	Option:	A	B	C	Correct	Scoring (0/1)
H - This is a river. (Point to prompt picture.) What would happen to the fish if the river dried up? Would there be the same amount of fish, more fish, or less fish?		 A	 B	 C	c	

Scoring: 0 = incorrect; 1 = correct

Item 31	Option:	A	B	C	Correct	Scoring (0/1)
H - This soup is very hot. (Point to prompt.) What would make the temperature of the soup colder: spoon, ice cubes, or boiling water?		 spoon	 ice cubes	 boiling water	b	
Scoring: 0 = incorrect; 1 = correct						
Item 32	Option:	A	B	C	Correct	Scoring (0/1)
H - Here are two rabbits. (Point to the prompt.) Which is the likely offspring of these rabbits: A, B or C?	question omitted	 A	 B	 C	c	
Scoring: 0 = incorrect; 1 = correct						
Item 33	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is the inside of a body. (Point to prompt.) Which body part is used for breathing: stomach, lungs, or heart?		 stomach	 lungs	 heart	b	
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 shows a wave being transmitted through something: A, B, or C?		 A	 B	 C	b	
Scoring: 0 = incorrect; 1 = correct						
Item 35	Option:	A	B	C	Correct	Scoring (0/1)
H - This is a diagram of photosynthesis. (Point to the prompt.) In photosynthesis, plants use water, sunlight, and air to make food. What does the plant's leaves release into the air: water, soil, or oxygen?	simplified diagram	 water	 soil	 oxygen	c	
Scoring: 0 = incorrect; 1 = correct						
Item 36	Option:	A	B	C	Correct	Scoring (0/1)
H - Jay's paper grocery bag has broken. (Point to student materials.) What is the best way to prevent this problem next time: use a reusable cloth bag, buy more groceries, or carry groceries in hands?		 use a reusable cloth bag	 buy more groceries	 carry groceries in hands	a	
Scoring: 0 = incorrect; 1 = correct						

Item 37	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a wooden table. (Point to the table.) A natural resource is something useful found in nature. Which natural resource does the table come from: water, trees, or rock? Scoring: 0 = incorrect; 1 = correct					b	




Item 38	Option:	A	B	C	Correct	Scoring (0/1)
H - This rock is on top of a hill. (Point to rock.) What will happen if a force pushes the rock: A, B, or C? Scoring: 0 = incorrect; 1 = correct					b	

Item 39	Option:	A	B	C	Correct	Scoring (0/1)
H - This is a log. (Point to prompt.) Which is left after a log burns: log, ashes, or rocks? Scoring: 0 = incorrect; 1 = correct					b	




Item 40	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is rain forming a puddle. (Point to the prompt.) Which form of water is a puddle: solid, liquid, or vapor? Scoring: 0 = incorrect; 1 = correct		solid	liquid	vapor	b	

Item 41	Option:	A	B	C	Correct	Scoring (0/1)
M - Here is the Sun. (Point to prompt.) Which type of waves does the Sun make: light, sound, or ocean? Scoring: 0 = incorrect; 1 = correct		light	sound	ocean	a	



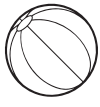
Item 42	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is a graph showing the amount of water used by three schools. (Point to graph.) Which school used the least amount of water: A, B, or C? Scoring: 0 = incorrect; 1 = correct		School A	School B	School C	c	

Item 43	Option:	A	B	C	Correct	Scoring (0/1)
H - This is a mouse. (Point to prompt.) Predators eat other animals. Which is a predator of the mouse: cat, worm, or ant?		 cat	 worm	 ant	a	




Scoring: 0 = incorrect; 1 = correct

Item 44	Option:	A	B	C	Correct	Scoring (0/1)
H - This is a flock of birds. (Point to birds.) What will happen to the number of birds if their food runs out, will there be: more birds, fewer birds, or equal number of birds?		 more birds	 fewer birds	 equal birds	b	

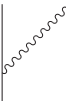
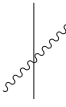
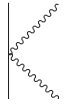
Scoring: 0 = incorrect; 1 = correct

Item 45	Option:	A	B	C	Correct	Scoring (0/1)
H - Here are three objects. (Point to answer choices.) Density measures how solid something is. Which object is most dense: feather, rock, or beach ball?		 feather	 rock	 beach ball	b	

Scoring: 0 = incorrect; 1 = correct

Item 46	Option:	A	B	C	Correct	Scoring (0/1)
M - Here is an airplane. (Point to answer choices.) Which shows an airplane with a design problem to solve: A, B, or C?	question omitted	 A	 B	 C	a	

Scoring: 0 = incorrect; 1 = correct

Item 47	Option:	A	B	C	Correct	Scoring (0/1)
H - This is a wave. (Point to wave in prompt.) Which shows a wave being absorbed, or stopped, by something: A, B, or C?		 A	 B	 C	a	

Scoring: 0 = incorrect; 1 = correct

Item 48	Option:	A	B	C	Correct	Scoring (0/1)
H - Here is our Solar System. (Point to diagram of solar system.) What does gravity force the planets to do: orbit the Sun, stop moving, or orbit the Earth?		orbit the Sun	stop moving	orbit the Earth	a	

Scoring: 0 = incorrect; 1 = correct