

MCAS Grade 8 Science and Technology/Engineering

Sample Blank Reference Sheet for Students with Accommodation A9

INSTRUCTIONS:

The following sample reference sheet is ONLY for students who have accommodation A9 listed in their IEP or 504 plan.

Before testing:

Schools should print out the following pages (or a reference sheet that has been submitted to and approved by the Department) and distribute to students who have accommodation A9 so that students can practice using the reference sheet. Schools should also remind students that during testing they may only use a reference sheet that has not yet been filled in.

During testing:

At the start of each test session, test administrators should check that that they are only providing reference sheets that have not already been filled in, and that they are providing them only to students who have accommodation A9 in their IEP or 504 plan.

Test administrators should remind students that they may not use any sheets that were filled in previously, nor any other reference materials or notes. Results **may be invalidated** for students who use a reference sheet that has already been filled in.



MCAS Grade 8

Artment of Elementary I Secondary Education Science and Technology/Engineering Sample Blank Reference Sheet for Students with Accommodation A9

Note: Students may ONLY be provided with a blank reference sheet to use during testing.

Earth Science		
Lunar and Solar Eclipses: What are the	Seasons result from the and of the	
positions of Earth, Moon, and Sun?	Earth. During summer, the Northern	
	hemisphere receives than in the	
	winter.	
Space science: galaxies, planets, solar system,	causes the planets to orbit the	
Sun, universe		
Plate Boundaries		
The top layer of rock is the The bottom layer of rock is the		
What is evidence of plate movement? How is it evidence?		
What happens when air masses collide?		

Life Science		
Type of OrganismPlantsAnimalsBacteriaFungi	Characteristics	Reactants: L, C, W Products: G, O Reactants: G, O Products: E, C
Cells		
How do body systems	s work together?	Types of food molecules: F, P, C
Body systems: Digest Excretory, Circulatory Nervous		Organisms need food molecules to and
Environmental factors organisms include		Advantages of sexual reproduction: Advantages of asexual reproduction:

Food Web: P, C, D	A change to a gene is a
	Genes, alleles, chromosomes

Natural selection is a process where some individuals _____ and _____ more than other individuals because ______.

Physical Science		
D V	States Of Matter	
Methods of Heat Transfer C, C, R	Kinetic energy increases when increases. Potential energy increases when increases.	
E M C M	Amplitude, energy, frequency, wavelength Absorb, reflect, refract, transmit	

Technology/Engineering		
Size, shape, weight, cost Strength, hardness, flexibility	Universal System: inputs, processes, outputs, feedback	
Manufacturing: forming, separating, conditioning, assembling, finishing, quality control, safety	Tension is a force.Compression is a force.Torsion is a force.	
Transportation: structural, propulsion, guidance, suspension, control Construction: foundation, floor, deck, wall, roof	Shear is a force.	

Science Practices

What is the Claim? What is the Evidence? What is the Reasoning? Was data asked for in the question? Did you include it in your answer? If asked to provide a question, is it a testable question?