SRPSD Grade 5 Science Rubrics

Life Science: Human Body Systems (HB)

HB5.1 Analyze personal and societal requirements for, and the impact of, maintaining a healthy human body.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can list the factors	I understand how the	I can explain how	I can develop a plan that
needed to maintain a	body works so that I	different lifestyles can	includes personal and
healthy human body.	can keep myself	affect the health of my	societal requirements for
a) i)	healthy.	body.	maintaining a healthy body.
	c) d) e)	b) f) h) k)	g) j)

HB5.2 Investigate the structure, function, and major organs of one or more human body systems such as the digestive, excretory, respiratory, circulatory, nervous, muscular, and skeletal systems.

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Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can identify major	I can explain the	I understand how the	I can create my own
organs or human	function of an organ	structure, function, and	investigation related to the
body systems.	or a human body	major organs of a human	structure and function of a
a) b) c)	system.	body system are connected.	human body system.
	a) b) c)	a) b) c) d)	g) h) i) k) j)

HB5.3 Assess how multiple human body systems function together to enable people to move, grow, and react to stimuli.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can identify body	I understand that body	I can explain how	I can suggest improvements to a
systems.	systems work together.	human body systems	body system to help the human
	a)	work together.	body work more efficiently.
		c) d) e) f)	g)

Physical Science: Properties and Changes of Materials (MC)

MC5.1 Investigate the characteristics and physical properties of materials in solid, liquid, and gaseous states of matter.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can define	I can distinguish	I understand the	I can use the characteristics
matter.	between solid, liquid	characteristics and	and physical properties to
a)	and gas. b) d) f)	physical properties of materials in the three	determine the state of matter of a substance that is not
		states of matter.	easily classified.
		c) e) g) h)	i) j)

MC5.2 Investigate how reversible and non-reversible changes, including changes of state, alter materials.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can provide an example of how materials can be changed.	I can classify changes in materials as reversible and non-reversible. d) e) f) i) k)	I understand how different factors affect the state or can change materials. c) g) h)	I can design, carry out, and reflect on a procedure that compares the effects reversible and non-reversible changes have on materials. a) j) n)

SRPSD Grade 5 Science Rubrics

MC5.3 Assess how the production, use, and disposal of raw materials and manufactured products affects self, society, and the environment.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I know the	I understand the	I can assess how the	I can justify my choice in
difference between	process of creating a	production, use, and	selecting a manufactured
raw materials and	manufactured product	disposal of raw materials	product based on the
manufactured	including production,	and manufactured products	impact it has on me, my
products.	use and disposal.	affects self, society, and the	society and the
a)	c) f) h) j)	environment.	environment.
		b) d) g) i)	e) k)

Physical Science: Forces and Simple Machines (FM)

FM5.1 Analyze the effects of gravitational, magnetic, and mechanical forces, including friction, on the movement of objects.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I know the	I can define and give	I can explain the	I can design, carry out, and
difference	examples of	effect gravitational,	reflect on a procedure to create
between contact	gravitational, magnetic,	magnetic, and	a device that will move an
and non-contact	and mechanical forces.	mechanical forces	object using gravitational,
forces.		have on the	magnetic, and mechanical
a)	b) c) e) k)	movement of objects.	forces.
		f) g) i) l)	d) h) m) n)

FM5.2 Investigate characteristics of simple machines, including levers, wheels and axles, pulleys, inclined planes, screws, and wedges, for moving and lifting loads.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I know what a	I can demonstrate ways	I understand the different	I can design, carry out, and
simple machine is.	simple machines move	characteristics of simple	reflect on a device made of
	or lift loads.	machines that are needed	simple machines that will
	b) c) m)	to move or lift loads.	move or lift loads.
		e) f) g) h) i) j) m)	d) k) l)

FM5.3 Assess how natural and man-made forces and simple machines affect individuals, society, and the environment.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can give examples of	I can define and give	I understand how forces and	I can design a device to
simple and complex	examples of natural	simple machines affect	simplify a task in my
machines.	and man-made forces.	individuals, society, and the	world.
a)	b) i) j)	environment.	e) l) m)
		c) d) f) g) h) k)	

Earth and Space Science: Weather (WE)

WE5.1 Measure and represent local weather, including temperature, wind speed and direction, amount of sunlight, precipitation, relative humidity, and cloud cover.

Beginning (1) Approaching (2)		Proficiency (3)	Mastery (4)
I can define temperature,	I can explain the function	I can measure and	I can design, construct
wind speed and direction, precipitation,	and purpose of simple weather instruments.	represent the local weather.	and evaluate a weather instrument to measure
and relative humidity.	b) e)	f) i)	local weather.
			d) g) h) j)

SRPSD Grade 5 Science Rubrics

WE5.2 Investigate local, national, and global weather conditions, including the role of air movement and solar energy transfer.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I recognize that	I can describe and	I understand how the	I can use my understanding of
weather conditions	compare different	role of air movement	air movement and solar
are not the same	weather conditions	and solar energy	energy transfer to explain why
everywhere and can	around the world.	transfer affects	weather forecasts may not
provide an example.	c) i) j) k) l)	weather.	match actual weather data.
		b) e) f) g) h) n)	d) m)

WE5.3 Analyze the impact of weather on society and the environment, including technologies that help humans address weather conditions.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I understand that	I can research the	I understand the impact of	I can explain why measuring,
weather has an	effects of weather on	weather on society and the	forecasting, and
impact on daily	society and the	environment.	understanding weather is
life.	environment.	c) e) f) g)	important.
	d) h)		i) j)