8s3 8s2		Demonstrate an understanding of the basic structure and function of plant and animal cells and cell processes Investigate functions and processes of plant and animal cells				
	1	2	3	4		
	Shows little understanding of the basic	Shows some understanding of the basic	Shows considerable understanding of the	Shows a high degree of understanding of the		
	structure, function, and processes of plant	structure, function, and processes of plant	basic structure, function, and processes of	basic structure, function, and processes of		
	and animal cells.	and animal cells.	plant and animal cells.	plant and animal cells.		
Know	ledge and Understanding (Subject - specific con	ntent acquired in each grade (knowledge), and th	e comprehension of its meaning and significance	(understanding))		
8s12	• identifies with many errors the postulates of	• identifies with some errors the postulates of	• identifies with few errors the postulates of the	• identifies with no errors the postulates of the		
	the cell theory	the cell theory	cell theory	cell theory		
8s16	identifies with many errors unicellular	identifies with some errors unicellular	identifies with few errors unicellular	• identifies with no errors unicellular organisms		
	organisms and multicellular organisms	organisms and multicellular organisms	organisms and multicellular organisms	and multicellular organisms		
8s13	 identifies with many errors structures and 	 identifies with some errors structures and 	 identifies with few errors structures and 	 identifies with no errors structures and 		
	organelles in cells	organelles in cells	organelles in cells	organelles in cells		
8s13	 explains with many errors the basic functions 	 explains with some errors the basic functions 	• explains with few errors the basic functions of	• explains with no errors the basic functions of		
0813	of structures and organelles in cells	of structures and organelles in cells	structures and organelles in cells	structures and organelles in cells		
8s14	compares with many errors the structure and	• compares with some errors the structure and	 compares with few errors the structure and 	compares with no errors the structure and		
001.	function of plant and animal cells	function of plant and animal cells	function of plant and animal cells	function of plant and animal cells		
8s15	• explain with many errors the processes of	• explain with some errors the processes of	• explain with few errors the processes of	• explain with no errors the processes of		
	diffusion & osmosis and their roles within a cell	diffusion & osmosis and their roles within a cell	diffusion & osmosis and their roles within a cell	diffusion & osmosis and their roles within a cell		
	• describes with many errors the organization of	• describes with some errors the organization of	• describes with few errors the organization of	• describes with no errors the organization of		
8s17	cells into tissues, organs, and systems	cells into tissues, organs, and systems	cells into tissues, organs, and systems	cells into tissues, organs, and systems		
Think	ing and Investigation (Use of critical/creative th	inking processes, skills, and strategies: Creativit	y, Application of prior knowledge/skills) i.e. web			
	• uses critical/creative thinking processes, skills,	• uses critical/creative thinking processes, skills,	• uses critical/creative thinking processes, skills,	• uses critical/creative thinking processes, skills,		
	and strategies with limited effectiveness	and strategies with some effectiveness	and strategies with considerable effectiveness	and strategies with a high degree of		
0.6	• with much assistance follows established	• with some assistance follows established	• with no assistance follows established safety	effectiveness		
8s6	safety procedures for investigating ecosystems	safety procedures for investigating ecosystems	procedures for investigating ecosystems	• with no assistance follows established safety		
				procedures for investigating ecosystems		
Comn	nunication (Expression and organization of ideas					
	Student expresses and organizes ideas and	Student expresses and organizes ideas and	Student expresses and organizes ideas and	Student expresses and organizes ideas and		
8s11	information using a variety of forms with	information using a variety of forms with some	information using a variety of forms with	information using a variety of forms with a high		
	limited effectiveness	effectiveness	considerable effectiveness	degree of effectiveness		
	Student uses vocabulary and terminology of the	Student uses vocabulary and terminology of the	Student uses vocabulary and terminology of the	Student uses vocabulary and terminology of the		
8s10	discipline with limited effectiveness in oral and	discipline with some effectiveness in oral and	discipline with considerable effectiveness in	discipline with a high degree of effectiveness in		
	written communication	written communication	oral and written communication	oral and written communication		
	cation (Transfer of knowledge and skills to unfan		nowledge and skills)	,		
8s7	• uses a microscope correctly and safely with	• uses a microscope correctly and safely with	• uses a microscope correctly and safely with	• uses a microscope correctly and safely with no		
	many errors to find and observe components of	some errors to find and observe components of	few errors to find and observe components of	errors to find and observe components of plant		
	plant and animal cells	plant and animal cells	plant and animal cells	and animal cells		
0-16	• compares with many errors the way	• compares with some errors the way	• compares with few errors the way unicellular/	• compares with no errors the way unicellular/		
8s16	unicellular/multicellular organisms meet their	unicellular/ multicellular organisms meet their	multicellular organisms meet their basic needs	multicellular organisms meet their basic needs		
	basic needs	basic needs	• prepares with few errors dry- and wet-mount	• prepares with no errors dry- and wet-mount		
8s8	• prepares with many errors dry- and wet-mount	• prepares with some errors dry- and wet-mount	slides of a variety of objects for use with a	slides of a variety of objects for use with a		
080	slides of a variety of objects for use with a	slides of a variety of objects for use with a	microscope	microscope		
	microscope	microscope	designs, constructs and interprets with few	designs, constructs and interprets with no		
8s13	designs, constructs and interprets with many	• designs, constructs and interprets with some	errors a model cell to illustrate the basic	errors a model cell to illustrate the basic		
	errors a model cell to illustrate the basic	errors a model cell to illustrate the basic	structure and function of plant and animal cells	structure and function of plant and animal cells		
	structure and function of plant and animal cells	structure and function of plant and animal cells	• use scientific inquiry/experimentation skills	• use scientific inquiry/experimentation skills		
8s9	• use scientific inquiry/experimentation skills	• use scientific inquiry/experimentation skills	with few errors to investigate the processes of	with no errors to investigate the processes of		
	with many errors to investigate the processes of	with some errors to investigate the processes of				
	osmosis and diffusion	osmosis and diffusion	osmosis and diffusion	osmosis and diffusion		

8s1	1 1. Assess the impact of cell biology on individuals, society, and the environment						
	1	2	3	4			
	Shows little understanding of impacts of human activities and technologies on the environment and evaluates ways of controlling these impacts.	Shows some understanding of impacts of human activities and technologies on the environment and evaluates ways of controlling these impacts.	Shows considerable understanding of impacts of human activities and technologies on the environment and evaluates ways of controlling these impacts.	Shows a high degree of understanding of impacts of human activities and technologies on the environment and evaluates ways of controlling these impacts.			
Knowledge and Understanding (Subject - specific content acquired in each grade (knowledge), and the comprehension of its meaning and significance (understanding))							
8s4 8s5	 identifies with many errors the role of selected technologies in enhancing our understanding of cells and cellular processes identifies with many errors some of the beneficial and harmful effects of cell 	identifies with some errors the role of selected technologies in enhancing our understanding of cells and cellular processes identifies with some errors some of the beneficial and harmful effects of cell	identifies with few errors the role of selected technologies in enhancing our understanding of cells and cellular processes identifies with few errors some of the beneficial and harmful effects of cell	identifies with no errors the role of selected technologies in enhancing our understanding of cells and cellular processes identifies with no errors some of the beneficial and harmful effects of cell			
	biology	biology	biology	biology			
Think	Thinking and Investigation (Use of critical/creative thinking processes, skills, and strategies: Creativity, Application of prior knowledge/skills) i.e. webs, model						
8s6	 uses critical/creative thinking processes, skills, and strategies with limited effectiveness with much assistance follows established safety procedures for investigating ecosystems 	uses critical/creative thinking processes, skills, and strategies with some effectiveness with some assistance follows established safety procedures for investigating ecosystems	uses critical/creative thinking processes, skills, and strategies with considerable effectiveness with no assistance follows established safety procedures for investigating ecosystems	uses critical/creative thinking processes, skills, and strategies with a high degree of effectiveness with no assistance follows established safety procedures for investigating ecosystems			
Comn		ideas and information in oral, visual, and/or					
8s11	Student expresses and organizes ideas and information using a variety of forms with limited effectiveness	Student expresses and organizes ideas and information using a variety of forms with some effectiveness	Student expresses and organizes ideas and information using a variety of forms with considerable effectiveness	Student expresses and organizes ideas and information using a variety of forms with a high degree of effectiveness			
8s10	Student uses vocabulary and terminology of the discipline with limited effectiveness in oral and written communication	Student uses vocabulary and terminology of the discipline with some effectiveness in oral and written communication	Student uses vocabulary and terminology of the discipline with considerable effectiveness in oral and written communication	Student uses vocabulary and terminology of the discipline with a high degree of effectiveness in oral and written communication			
	cation (Transfer of knowledge and skills to	unfamiliar contexts: Creativity, Application	of prior knowledge and skills)				
8s4	• examines and assess with many errors the role and impact of technologies in enhancing our understanding of cells and cellular processes	examines and assess with some errors the role and impact of technologies in enhancing our understanding of cells and cellular processes	examines and assess with few errors the role and impact of technologies in enhancing our understanding of cells and cellular processes	examines and assess with no errors the role and impact of technologies in enhancing our understanding of cells and cellular processes			
8s5	• assess with many errors the potential that our understanding of cells and cell processes has for both beneficial and harmful effects on human health and the environment, taking different perspectives into account	• assess with some errors the potential that our understanding of cells and cell processes has for both beneficial and harmful effects on human health and the environment, taking different perspectives into account	• assess with few errors the potential that our understanding of cells and cell processes has for both beneficial and harmful effects on human health and the environment, taking different perspectives into account	• assess with no errors the potential that our understanding of cells and cell processes has for both beneficial and harmful effects on human health and the environment, taking different perspectives into account			