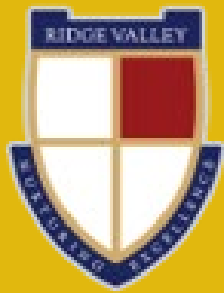


Grade 9 Curriculum



Ridge Valley School
Annual Curriculum
2020-21



CONTENT

- English
- Science
- Mathematics
- SocialStudies
- Hindi
- Spanish
- French
- Artificial Intelligence
- Computer Applications

ENGLISH



*Language shapes the way we think and determines
what we can think about.*

– Benjamin Lee Whorfa

Term 1

Cycle No.	Dates from	To	Grade 9
1	30.03.2020	09.04.2020	Beehive: The Fun They Had (Prose) , Grammar: Revision of previous concepts , Writing Skills: Diary Entry
2	13.04.2020	24.04.2020	Beehive: The Road Not Taken (Poem), The Sound of Music (Prose) Integrated Grammar Exercises, Writing Skills: Article
3	27.04.2020	08.05.2020	Beehive: Wind (Poem), The Little Girl (Prose), Writing Skills: Story Writing, Integrated Grammar
4	11.05.2020	29.05.2020	Moments: The Lost Child, Writing Skills: Story Writing , Integrated Grammar
5	06.07.2020	17.07.2020	Beehive: Rain on the Roof (Poem), A Truly Beautiful Mind (Prose), Writing Skills: story writing
6	20.07.2020	30.07.2020	The Adventures of Toto, Integrated Grammar, Writing skills: Diary Entry
7	04.08.2020	14.08.2020	Beehive: A Legend of the Northland (Poem), My Childhood (Prose), Moments: In the Kingdom of Fools, Integrated Grammar
8	17.08.2020	28.08.2020	Beehive: No Men Are Foreign (Poem), Moments: The Happy Prince, Writing Skills: Diary Entry, Integrated Grammar
Revision	31.08.2020	04.09.2020	Revision Cycle
Exam	07.09.2020	18.09.2020	Midterm Exam

Term 2

Cycle No.	Dates from	To	Grade 8
9	21.09.2020	01.10.2020	Beehive: Packing (Prose), Writing Skills: Story writing, Integrated Grammar
10	05.10.2020	16.10.2020	Reach for the Top (Prose), Moments: Weathering the Storm in Ersama, Integrated Grammar
11	19.10.2020	29.10.2020	Beehive: On Killing A Tree (Poem), The Bond of Love (Prose), The Snake Trying (Poem), Writing Skills: Story writing, Integrated Grammar
12	02.11.2020	20.11.2020	Moments: The Last Leaf, Integrated Grammar
13	23.11.2020	04.12.2020	Beehive: If I were You (Play), Moments: A House is Not a Home, Writing Skills: Article

			(Revision), Story Writing (Revision)
14	07.12.2020	24.12.2020	Grammar: Revision of all concepts taught, Writing Skills: Diary Entry
15	18.01.2021	29.01.2021	Moments: The Beggar, Revision for Final Term Examination
16	01.02.2021	12.02.2021	Grammar: Revision of all concepts taught, Writing Skills: Diary Entry
Revision	15.02.2021	25.02.2021	Revision Cycle
Exam	26.02.2021	12.03.2021	Term End Exam
	15.03.2021	26.03.2021	Result and Orientation



Science

Chemistry

**“Everything is theoretically impossible, until it is done.”
- Robert A. Heinlein.**

Term 1

Cycle No.	Dates from	To	Grade 9
1	30.03.2020	09.04.2020	Matter in our surroundings - Physical Nature of Matter - matter is made up of particles, how small are these particles of matter?
2	13.04.2020	24.04.2020	Matter in our surroundings - Characteristics of Particles of Matter - particles of matter have space between them, particles of matter are continuously moving, particles of matter attract each other
3	27.04.2020	08.05.2020	Matter in our surroundings - States of Matter - liquid, solid and gaseous
4	11.05.2020	29.05.2020	Matter in our surroundings - Can Matter Change its State?, effect of change of temperature, effect of change of pressure
	29.06.2020	03.07.2020	Extra Class - Evaporation, revision of chapter 1
5	06.07.2020	17.07.2020	Is matter around us pure - What is a Mixture?, types of mixtures, What is a Solution?, concentration of a solution, What is a suspension?, Properties of a colloid
6	20.07.2020	30.07.2020	Is matter around us pure - Separating the Components of a Mixture - evaporation, centrifugation, separating funnel
7	04.08.2020	14.08.2020	Is matter around us pure - Separating the Components of a Mixture - separate a mixture of salt and ammonium chloride, Chromatography, distillation
8	17.08.2020	28.08.2020	Is matter around us pure - how can we obtain different gases from air? Crystallization, Physical and Chemical Changes, Elements and compounds
Revision	31.08.2020	04.09.2020	Revision cycle
Exam	07.09.2020	18.09.2020	Mid Term

Term 2

Cycle No.	Dates from	To	Grade 9
9	21.09.2020	01.10.2020	Atoms and molecules - Laws of Chemical Combination, Dalton's atomic theory, What is an Atom?
10	05.10.2020	16.10.2020	Atoms and molecules- Symbols for some elements, Atomic mass, What is a Molecule?, what is an ion?
11	19.10.2020	29.10.2020	Atoms and molecules - Writing Chemical Formulae, molecular mass, formula unit mass
12	02.11.2020	20.11.2020	Atoms and molecules - Mole concept and revision of the chapter
13	23.11.2020	04.12.2020	Structure of an atom - Charged Particles in Matter, Thomson's model of an atom, Rutherford's model of an atom
14	07.12.2020	24.12.2020	Structure of an atom - BOHR'S MODEL OF ATOM, How are Electrons Distributed in Different Orbits (Shells)?, Valency
15	06.01.2021	15.01.2021	Structure of an atom - 3 classes - Atomic Number and Mass Number, Isotopes, Isobars
16	18.01.2021	29.01.2021	Structure of an atom - Revision of the chapter
	01.02.2021	05.02.2021	Revision Cycle
	08.02.2021	19.02.2021	Final Exams
	22.02.2021	26.02.2021	Result and Orientation

Physics

“All of physics is either impossible or trivial. It is impossible until you understand it, and then it becomes trivial”

- Ernest Rutherford.

Term 1

Cycle No.	Dates from	To	Grade 9
1	30.03.2020	09.04.2020	Motion and its parameter, Velocity and speed, Average and instantaneous motion, Acceleration, Uniformly accelerated motion
2	13.04.2020	24.04.2020	Derivation of equation of motion by analytical method and graphical method
3	27.04.2020	08.05.2020	Uniform circular motion, Velocity, Centripetal forces and acceleration
4	11.05.2020	29.05.2020	Force and its properties, Balanced and unbalanced forces, Inertia and its types, Newton's first law of motion with examples.
	29.06.2020	03.07.2020	Extra class- Revision of chapter motion
5	06.07.2020	17.07.2020	Newton's second and third laws of motion with examples, Momentum
6	20.07.2020	30.07.2020	Conservation of linear momentum with examples
7	04.08.2020	14.08.2020	Newton's law of gravitation, Acceleration due to

	0		gravity, Importance of universal law of gravitation
8	17.08.2020	28.08.2020	Calculation of value of g, Free fall, Kepler's law of planetary motion, Mass and weight
Revision	31.08.2020	04.09.2020	Revision cycle
Exam	07.09.2020	18.09.2020	Mid Term

Term 2

Cycle No.	Dates from	To	Grade 9
9	21.09.2020	01.10.2020	Work and nature of work done-zero work, negative work and positive work, Work done by constant force
10	05.10.2020	16.10.2020	Energy, different forms of energy, Kinetic energy, Potential energy, Potential energy of an object at height
11	19.10.2020	29.10.2020	Conservation of energy, Rate of doing work-Power, Commercial unit of energy
12	02.11.2020	20.11.2020	Production of sound, Propagation of sound, Sound needs medium to travel
13	23.11.2020	04.12.2020	Sound waves are longitudinal, Characteristics of a sound wave-quality, loudness, timbre
14	07.12.2020	24.12.2020	Reverberation, Uses of multiple reflection of sound, Applications of ultra sound
15	06.01.2021	15.01.2021	Revision- work and energy
16	18.01.2021	29.01.2021	Revision- sound
	01.02.2021	05.02.2021	Revision Cycle
	08.02.2021	19.02.2021	Final Exams
	22.02.2021	26.02.2021	Result and Orientation

BIOLOGY

“Everything is theoretically impossible, until it is done.”

- Robert A. Heinlein.

Term 1

Cycle No.	Dates from	To	Grade 9
1	30.03.2020	09.04.2020	What are living organisms made up of? What is the structural organisation of cells - Plasma Membrane
2	13.04.2020	24.04.2020	Cell wall, Nucleus, Cytoplasm, Cell organelles - Endoplasmic reticulum, Golgi apparatus, Lysosomes, Mitochondria, Plastids, Vacuoles.
3	27.04.2020	08.05.2020	Are plants and animals made of same type of tissues?, Plant tissues -Meristematic tissues Permanent tissues , Animals tissues - Epithelial tissues,
4	11.05.2020	29.05.2020	Connective tissues- The various types
	29.06.2020	03.07.2020	Connective tissues- The various types
5	06.07.2020	17.07.2020	The structure and function of neuron
6	20.07.2020	30.07.2020	Diversity of animals – Basic concepts
7	04.08.2020	14.08.2020	Revision – Cell the Basic Unit of Life
8	17.08.2020	28.08.2020	Revision – Tissues
Revision	31.08.2020	04.09.2020	Revision
Exam	07.09.2020	18.09.2020	Mid Term

Term 2

Cycle No.	Dates from	To	Grade 9
9	21.09.2020	01.10.2020	The significance of health, Distinction between healthy and disease free
10	05.10.2020	16.10.2020	Disease and its causes, Chronic diseases and poor health , Causes of diseases, Infectious and Non-infectious causes
11	19.10.2020	29.10.2020	Means of spread, Infectious agents , Organ specific and Tissue specific manifestations
12	02.11.2020	20.11.2020	Natural Resources – Internal Assessments
13	23.11.2020	04.12.2020	Natural Resources –Internal Assessments
14	07.12.2020	24.12.2020	Discussion of Plant Variety Improvement – Crop Management and Resource
15	06.01.2021	15.01.2021	Discussion of Plant improvement and Animal Husbandry
16	18.01.2021	29.01.2021	Revision Cycle
17	01.02.2021	05.02.2021	Revision Cycle
18	08.02.2021	19.02.2021	Final Exams
19	22.02.2021	26.02.2021	Results and Orientation

Mathematics

Doing Mathematics should always mean finding patterns and crafting beautiful and meaningful explanations!

TERM-I

Cycle No.	Dates from	To	Grade 9
1	30.03.2020	09.04.2020	Number System
2	13.04.2020	24.04.2020	Polynomials
3	27.04.2020	08.05.2020	Polynomials
4	11.05.2020	29.05.2020	Coordinate Geometry and Linear Equations in two variables
5	06.07.2020	17.07.2020	Lines and Angles
6	20.07.2020	30.07.2020	Triangles
7	04.08.2020	14.08.2020	Triangles
8	17.08.2020	28.08.2020	Heron's Formula
Revision	31.08.2020	04.09.2020	Revision Cycle
Exam	07.09.2020	18.09.2020	Mid-Term Exam

Term 2

Cycle No.	Dates from	To	Grade 9
9	21.09.2020	01.10.2020	Quadrilaterals
10	05.10.2020	16.10.2020	
11	19.10.2020	29.10.2020	Circles
12	02.11.2020	20.11.2020	
13	23.11.2020	04.12.2020	Constructions
14	07.12.2020	24.12.2020	Surface Areas and Volume
15	06.01.2021	15.01.2021	Statistics
16	018.01.2021	29.01.2021	Statistics and Probability
Revision	01.02.2021	05.02.2021	Revision
Exam	08.02.2021	19.02.2021	Final Exams
Result Discussion	22.02.2021	26.02.2021	Result Discussion

*-Paul Lockhart***Term 1**

Cycle No.	Dates from	To	Grade 8
1	30.03.2020	09.04.2020	
2	13.04.2020	24.04.2020	
3	27.04.2020	08.05.2020	
4	11.05.2020	29.05.2020	
5	06.07.2020	17.07.2020	
6	20.07.2020	30.07.2020	
7	04.08.2020	14.08.2020	
8	17.08.2020	28.08.2020	
Revision	31.08.2020	04.09.2020	Revision Cycle
Exam	07.09.2020	18.09.2020	Mid term Exam

Term 2

Cycle No.	Dates from	To	Grade 8
9	21.09.2020	01.10.2020	
10	05.10.2020	16.10.2020	
11	19.10.2020	29.10.2020	
12	02.11.2020	20.11.2020	
13	23.11.2020	04.12.2020	
14	07.12.2020	24.12.2020	
15	18.01.2021	29.01.2021	
16	01.02.2021	12.02.2021	
Revision	15.02.2021	25.02.2021	
Exam	26.02.2021	12.03.2021	Term End Exam
	15.03.2021	26.03.2021	Result and Orientation

Social Science



“The more you know about the past, the better you are prepared for the Future”
Theodore Roosevelt

Term 1

Cycle No.	Dates from	To	Grade 8
1	30.03.2020	09.04.2020	
2	13.04.2020	24.04.2020	
3	27.04.2020	08.05.2020	
4	11.05.2020	29.05.2020	
5	06.07.2020	17.07.2020	
6	20.07.2020	30.07.2020	
7	04.08.2020	14.08.2020	
8	17.08.2020	28.08.2020	
Revision	31.08.2020	04.09.2020	Revision Cycle
Exam	07.09.2020	18.09.2020	Mid term Exam

Social Science



Term 2

Cycle No.	Dates from	To	Grade 8
9	21.09.2020	01.10.2020	
10	05.10.2020	16.10.2020	
11	19.10.2020	29.10.2020	
12	02.11.2020	20.11.2020	
13	23.11.2020	04.12.2020	
14	07.12.2020	24.12.2020	
15	18.01.2021	29.01.2021	
16	01.02.2021	12.02.2021	
Revision	15.02.2021	25.02.2021	Revision Cycle
Exam	26.02.2021	12.03.2021	Term End Exam
	15.03.2021	26.03.2021	Result and Orientation

हिंदी

निज भाषा उन्नति अहै, सब उन्नति को मूल-
भारतेन्दु हरिश्चंद्र



Term 1

Cycle No.	Dates from	To	Grade 9
1	30.03.2020	09.04.2020	दुख का अधिकार , अनुस्वार ,अनुनासिक, शब्द और पद
2	13.04.2020	24.04.2020	रैदास के पद , धूल
3	27.04.2020	08.05.2020	गिल्लू ,रहीम के दोहे
4	11.05.2020	29.05.2020	एवरेस्ट मेरी शिखर यात्रा ,उपसर्ग -प्रत्यय
5	06.07.2020	17.07.2020	स्मृति, शब्द विचार (श्रुतिसम भिन्नार्थक शब्द, पर्यायवाची, विलोम शब्द)
6	20.07.2020	30.07.2020	अपठित गद्यांश , अर्थ की दृष्टि से वाक्य भेद
7	04.08.2020	14.08.2020	संदेश लेखन , स्लोगन लेखन
8	17.08.2020	28.08.2020	तुम कब जाओगे -अतिथि,संवाद लेखन , पत्र लेखन
Revision	31.08.2020	04.09.2020	Revision Cycle
Exam	07.09.2020	18.09.2020	Mid term Exam

Term2

Cycle No.	Dates from	To	Grade 9
9	21.09.2020	01.10.2020	हामिद खाँ
10	05.10.2020	16.10.2020	अनुच्छेद लेखन,श्रवण कौशल गतिविधि
11	19.10.2020	29.10.2020	धर्म की आड़, परियोजना कार्य
12	02.11.2020	20.11.2020	वाचन कौशल गतिविधि
13	23.11.2020	04.12.2020	एक फूल की चाह
14	07.12.2020	24.12.2020	दिये जल उठे
15	18.01.2021	29.01.2021	लेखन कौशल गतिविधि
16	01.02.2021	12.02.2021	संवाद लेखन , पत्र लेखन
Revision	15.02.2021	25.02.2021	Revision Cycle
Exam	26.02.2021	12.03.2021	Term End Exam
	15.03.2021	26.03.2021	Result and Orientation



French

“Knowledge of languages is the doorway to wisdom.”

- Roger Bacon.

Term 1

Cycle No.	Dates from	To	Grade 9
1	30.03.2020	09.04.2020	L- 1 – La famille
2	13.04.2020	24.04.2020	L-2 Au lycée
3	27.04.2020	08.05.2020	L-3 Une journée de Pauline
4	11.05.2020	29.05.2020	L-4 Les saisons
5	06.07.2020	17.07.2020	L-4 Les saisons
6	20.07.2020	30.07.2020	L-5 – Les voyages
7	04.08.2020	14.08.2020	L-5 – Les voyages
8	17.08.2020	28.08.2020	Revision
Revision	31.08.2020	04.09.2020	Revision
Exam	07.09.2020	18.09.2020	

Term 2

Cycle No.	Dates from	To	Grade 9
9	21.09.2020	01.10.2020	L-6 Les loisirs et les sports
10	05.10.2020	16.10.2020	L-7 – L’argent de poche
11	19.10.2020	29.10.2020	L-8 – Faire des achats
12	02.11.2020	20.11.2020	Pronoms relatifs simples
13	23.11.2020	04.12.2020	Trouvez la question
14	07.12.2020	24.12.2020	Négatifs
15	18.01.2021	29.01.2021	Revision
16	01.02.2021	12.02.2021	Revision
Revision	15.02.2021	25.02.2021	Revision
Exam	26.02.2021	12.03.2021	
	15.03.2021	26.03.2021	

Spanish

"Language is the road map of a culture. It tells you where its people come from and where they are going"

Rita Mae Brown

Term 1

Cycle No.	Dates from	To	Grade 9
1	30.03.2020	09.04.2020	Lesson 1- Los nosotros
2	13.04.2020	24.04.2020	Lesson 1- Los nosotros
3	27.04.2020	08.05.2020	Lesson 2- Quiero aprender el español
4	11.05.2020	29.05.2020	Lesson 3- ¿Donde esta santiago?
5	06.07.2020	17.07.2020	Lesson 4 - ¿Cual prefieres?
6	20.07.2020	30.07.2020	Lesson 5- Tus amigos son mis amigos Spanish authors and their work
7	04.08.2020	14.08.2020	Lesson 6 - Día a día
8	17.08.2020	28.08.2020	Spanish authors and their work
9	31.08.2020	04.09.2020	Revision

Term 2

Cycle No.	Dates from	To	Grade 9
9	07.09.2020	18.09.2020	Lesson 7- A comer
10	21.09.2020	01.10.2020	Lesson 7- A comer
11	05.10.2020	16.10.2020	Lesson 8- El barrio ideal
12	19.10.2020	29.10.2020	Lesson 8- El barrio ideal
13	02.11.2020	20.11.2020	Lesson 9- ¿Sabes conducir?
14	23.11.2020	04.12.2020	Lesson 9- ¿Sabes conducir?
15	07.12.2020	24.12.2020	Spanish authors and their work
16	18.01.2021	29.01.2021	Spanish authors and their work
17	01.02.21	12.02.21	Revision
18	01.02.21	01.02.21	Revision
19	26.02.21	12.03.21	Revision

Artificial Intelligence

"It's harder to read code than to write it." – Joel Spolsky

Term 1

Cycle No.	Dates from	To	Lesson
1	08.06.2020	20.06.2020	AI Changing The Human World, History, AI Ethics Meaning of AI- Fields of AI, Phases of AI development
2	22.06.2020	03.07.2020	Types of AI
4	06.07.2020	17.07.2020	Three Domains of AI The relevance of AI in Daily Life
5	20.07.2020	30.07.2020	Using AI to achieve SDGs Possibilities of Ai in various Fields
6	04.08.2020	14.08.2020	Ethical Concerns related to AI Access- Lab activities
7	17.08.2020	28.08.2020	Lab activities
Revision	31.08.2020	04.09.2020	Revision for Mid Term
Exam	07.09.2020	18.09.2020	Mid Term Exams

Term 2

Cycle No.	Dates from	To	Lesson
8	21.09.2020	01.10.2020	AI Project Cycle- Problem Identification
9	05.10.2020	16.10.2020	Problem Scoping, Data Acquisition
10	19.10.2020	30.10.2020	Data Exploration, Modelling
11	02.11.2020	20.11.2020	Evaluation and Deployment
12	23.11.2020	04.12.2020	Practical activities
13	07.12.2020	24.12.2020	Introduction to Python- Basics, Lists
14	06.01.2021	15.01.2021	Introduction to Python- Basics, Lists
15	18.01.2021	29.01.2021	Project and File Work
Revision	01.02.2021	05.02.2021	
Exam	08.02.2021	19.02.2021	Final Term Exams
Result	22.02.2021	26.02.2021	

PAINTING

“I dream my painting and I paint my dream.”

Vincent Willem van Gogh

Term 1

Cycle No.	Dates from	To	Activity
1	30.03.2020	09.04.2020	Introduction about Painting/Art
2	13.04.2020	24.04.2020	Manadal art, Warli Folk art (practical)
3	27.04.2020	08.05.2020	Glossary of Painting
4	11.05.2020	29.05.2020	Nature scenery (practical)
5	06.07.2020	17.07.2020	Simple pencil shading techniques(practical)
6	20.07.2020	30.07.2020	Land scape, sea scape and city scape(practical)
7	04.08.2020	14.08.2020	Poster making(practical)
8	17.08.2020	28.08.2020	Elements of art
Revision	31.08.2020	04.09.2020	Practice
Exam	07.09.2020	18.09.2020	Midterm Exam

Term 2

Cycle No.	Dates from	To	Activity
9	21.09.2020	01.10.2020	Principles of art
10	05.10.2020	16.10.2020	Warli Folk art (practical)
11	19.10.2020	29.10.2020	Theory of colours
12	02.11.2020	20.11.2020	Still life theory and (practical)
13	23.11.2020	04.12.2020	Materials of art
14	07.12.2020	24.12.2020	Tools and surfaces for painting
15	18.01.2021	29.01.2021	Introductions to history of indian art
16	01.02.2021	12.02.2021	Calligraphy integrated graffiti (practical)
Revision	15.02.2021	25.02.2021	Practice
Exam	26.02.2021	12.03.2021	Cycle Term End Exam
	15.03.2021	26.03.2021	Result and Orientation

Computer Applications



"Technology is best when it brings people together"

- Matt Mullenweg

Term 1

Cycle No.	Dates from	To	Grade 9
1	30.03.2020	09.04.2020	Computer System, Its characteristics, Applications and functions
2	13.04.2020	24.04.2020	Basic organization of Computer, CPU and its components, Types of Computers
3	27.04.2020	08.05.2020	Input Devices
4	11.05.2020	29.05.2020	Output Devices
5	06.07.2020	17.07.2020	Types of Software
6	20.07.2020	30.07.2020	Operating system
7	04.08.2020	14.08.2020	Working with an Operating System
8	17.08.2020	28.08.2020	Computer Networking
Revision	31.08.2020	04.09.2020	Revision Cycle
Exam	07.09.2020	18.09.2020	Midterm Exam

Term 2

Cycle No.	Dates from	To	Grade 9
9	21.09.2020	01.10.2020	Cyber safety
10	05.10.2020	16.10.2020	Microsoft Word 2010-I
11	19.10.2020	29.10.2020	Microsoft Word 2010-II,III
12	02.11.2020	20.11.2020	Microsoft Power Point 2010-I
13	23.11.2020	04.12.2020	Microsoft Power Point 2010-II
14	07.12.2020	24.12.2020	Microsoft Excel 2010 – I, II
15	18.01.2021	29.01.2021	Scratch Programming
16	01.02.2021	12.02.2021	Various blocks in Scratch Programming
Revision	15.02.2021	25.02.2021	Revision Cycle
Exam	26.02.2021	12.03.2021	Term End Exam
	15.03.2021	26.03.2021	Result and Orientation