

Grade 10 Curriculum



Ridge Valley School
Annual Curriculum
2020-21



CONTENT

- English
- Science
- Mathematics
- Social Studies
- Hindi
- Spanish
- French
- 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	Syllabus
1	02.03.2020	13.03.2020	A Triumph of Surgery, Fire and Ice, Dust of Snow Subject-Verb Concord- Gap filling, Editing, Formal Letter Writing
2	30.03.2020	09.04.2020	A Letter to God, The Midnight Visitor
3	13.04.2020	24.04.2020	Two Stories about Flying- Part – His First Flight, Part II- Black Aeroplane
4	27.04.2020	08.05.2020	The Thief's Story, Tenses, Modals, Editing and Omission exercises, story writing
5	11.05.2020	29.05.2020	Nelson Mandela- Long Walk to Freedom
Exam	29.06.2020	03.07.2020	Interim Exam
6	06.07.2020	17.07.2020	From the Diary of Anne Frank, Letter Writing
7	20.07.2020	30.07.2020	A Tiger in the Zoo, Tenses, Modals, Editing and Omission exercises
8	04.08.2020	14.08.2020	The Ball Poem, The Hundred Dresses- I
9	17.08.2020	28.08.2020	The Hundred Dresses II, Footprints Without Feet, Analytical paragraph writing, Letter of placing an order and complaint
10	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	Syllabus
11	21.09.2020	01.10.2020	The Making of a Scientist, The Necklace, Analytical paragraph writing
12	05.10.2020	16.10.2020	Glimpses of India- I, II & III, Madam Rides a Bus
13	19.10.2020	30.10.2020	The Proposal, The Making of a Scientist, Editing, Gap Filling, Jumbled sentences
14	02.11.2020	20.11.2020	The Necklace, The Hack Driver, The Tale of Custard the Dragon
15	23.11.2020	04.12.2020	Bholi, Amanda, Animals, Editing, Gap Filling, Jumbled sentences
16	07.12.2020	10.12.2020	Revision Cycle
Exam	11.12.2020	24.12.2020	Pre-Board 1
Exam	06.01.2021	15.01.2021	Pre-Board 2



Science Chemistry

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

Term 1

Cycle No.	Dates from	To	Grade 10
1	02.03.2020	13.03.2020	Chemical Reactions and Equations - Introduction, Balancing of equations,
2	16.03.2020	27.03.2020	Types Of Chemical Reactions - combination, decomposition, displacement
3	30.03.2020	09.04.2020	Types Of Chemical Reactions - double displacement, oxidation and reduction, effects of oxidation reactions
4	13.04.2020	24.04.2020	Acids, Bases and Salts - chemical properties of acids and bases
5	27.04.2020	08.05.2020	What do all acids and all bases have in common? How strong are acid or base solutions?
6	11.05.2020	29.05.2020	Importance of pH in Ever tance of pH in Everyday Life, more about salts
	29.06.2020	03.07.2020	Interim Exams
8	06.07.2020	17.07.2020	Chemical properties of metals and non-metals - reaction with oxygen, reaction with water
9	20.07.2020	30.07.2020	Chemical properties - reaction with acids, reaction with other metal salts, reactivity series
10	04.08.2020	14.08.2020	How do metals and non-metals react, Properties of ionic compounds
11	17.08.2020	28.08.2020	Practicing questions of metals and non-metals through sample papers and exemplar
	31.08.2020	04.09.2020	Revision Cycle
	07.09.2020	18.09.2020	Mid term exam

Term 2

Cycle No.	Dates from	To	Grade 10
12	21.09.2020	01.10.2020	Carbon and its compounds - Introduction, Bonding in carbon, versatile nature of carbon
13	05.10.2020	16.10.2020	Periodic Classification of Elements - Introduction, Döbereiner's Triads, Newlands' Law of Octaves,
14	19.10.2020	30.10.2020	Periodic Classification of Elements - Mendeléev's Periodic Table, The Modern Periodic Table
15	02.11.2020	20.11.2020	Periodic Classification of Elements - Trends in the Modern Periodic Table, Revision
16	23.11.2020	04.12.2020	Revision
17	07.12.2020	10.12.2020	Revision Cycle
	11.12.2020	24.12.2020	Pre Boards I & result
	06.01.2021	15.01.2021	Pre Board II
	18.01.2021	20.01.2021	Result Discussion

Physics

**“Energy is liberated matter, matter is energy waiting to happen.”
- Bill Bryson.**

Term 1

Cycle No.	Dates from	To	Grade 10
1	02.03.2020	13.03.2020	Light, Plane mirror, Image formed by two plane mirrors, Properties of plane mirror.
2	16.03.2020	27.03.2020	Laws of reflection, Spherical mirrors, Properties of convex and concave mirrors, Sign conventions, Image formation by concave and convex mirror
3	30.03.2020	09.04.2020	Mirror formula and magnification, Lens formula, Image formation by concave and convex lens, Power of lens
4	13.04.2020	24.04.2020	Human eye and its parts, defects of vision- Myopia, Hypermetropia and Presbyopia
5	27.04.2020	08.05.2020	Dispersion of white light, Dispersive power, Primary and secondary Rainbow, Scattering of light-Tyndall effect, Color of clear sky, Reddish color of sun at sunset and sunrise
6	11.05.2020	29.05.2020	Atmospheric refraction- Twinkling of stars, Advance sunrise and delayed sunset,
	29.06.2020	03.07.2020	Interim Exams
8	06.07.2020	17.07.2020	Potential and potential difference, Ohm's law, Dependence of resistance on various factors, Electric circuits
9	20.07.2020	30.07.2020	Combination of resistances in series and parallel, Electric power, Joule's law of heating
10	04.08.2020	14.08.2020	Practical applications of resistance and electric current, Fuse wire
11	17.08.2020	28.08.2020	Practicing questions of light: Reflection and Refraction, The human eye and colorful world, Electricity through sample papers and exemplar
	31.08.2020	04.09.2020	Revision Cycle
	07.09.2020	18.09.2020	Mid-term exam

Term 2

Cycle No.	Dates from	To	Grade 10
12	21.09.2020	01.10.2020	Magnetic field and field lines, Magnetic field and force due to current carrying conductor, Solenoid, Electromagnetic induction
13	05.10.2020	16.10.2020	Fleming's left hand rule, Fleming's right hand rule, Parallel wiring in the homes
14	19.10.2020	30.10.2020	Good source of energy, Conventional sources of energy, Thermal power plants, Hydro-power plants
15	02.11.2020	20.11.2020	Non-conventional sources, Wave energy, Ocean thermal energy, Geothermal energy, Environmental consequences, Lasting of energy source
16	23.11.2020	04.12.2020	Revision
17	07.12.2020	10.12.2020	Revision Cycle
	11.12.2020	24.12.2020	Pre-Boards I & result
	06.01.2021	15.01.2021	Pre-Board II
	18.01.2021	20.01.2021	Result Discussion

Biology

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

- Robert A. Heinlein.

Term 1

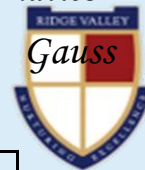
Cycle No.	Dates from	To	Grade 10
1	02.03.2020	13.03.2020	Life Processes - What are life processes , Nutrition
2	16.03.2020	27.03.2020	Life Processes - Respiration, Transportation in human beings
3	30.03.2020	09.04.2020	Life Processes - Transportation in plants, Excretion
4	13.04.2020	24.04.2020	Control and coordination - Animals -Nervous system, Reflex Actions, human brain
5	27.04.2020	08.05.2020	Control and coordination - Coordination in plants, Hormones in animals
6	11.05.2020	29.05.2020	How do organisms reproduce? Do organisms create exact copies of themselves? Importance of variation, Modes of reproduction used by single celled organisms
	29.06.2020	03.07.2020	Interim Exams
8	06.07.2020	17.07.2020	How do organisms reproduce? – Vegetative Propagation and structure of a flower
9	20.07.2020	30.07.2020	Sexual Reproduction in flowers
10	04.08.2020	14.08.2020	Reproduction in Human
11	17.08.2020	28.08.2020	Reproductive Health
	31.08.2020	04.09.2020	Revision Cycle
	07.09.2020	18.09.2020	Mid-term exam

Term 2

Cycle No.	Dates from	To	Grade 10
12	21.09.2020	01.10.2020	Introduction to Heredity - 4 classes
13	05.10.2020	16.10.2020	Mendel's Theory - Chapter Heredity
14	19.10.2020	30.10.2020	Mendel's Theory - Chapter Heredity
15	02.11.2020	20.11.2020	Our Environment - Ecosystem, Food chains and webs,
16	23.11.2020	04.12.2020	Our environment - How do we effect the environment, Management of natural resources - Forests and wild life
17	07.12.2020	10.12.2020	Revision Cycle
	11.12.2020	24.12.2020	Pre-Boards I & result
	06.01.2021	15.01.2021	Pre-Board II
	18.01.2021	20.01.2021	Result Discussion

Mathematics

"Mathematics is the Queen of Sciences and Arithmetic is the Queen of Mathematics"



Term 1

Cycle No.	Dates from	To	Syllabus
1	02.03.2020	13.03.2020	Real numbers
2	30.03.2020	09.04.2020	Polynomials
3	13.04.2020	24.04.2020	Pair of Linear Equations in Two variables
4	27.04.2020	08.05.2020	Quadratic Equations
5	11.05.2020	29.05.2020	Arithmetic Equations
Exam	29.06.2020	03.07.2020	Interim Exam
6	06.07.2020	17.07.2020	Introduction to Trigonometry
7	20.07.2020	30.07.2020	Some Applications of Trigonometry
8	04.08.2020	14.08.2020	Statistics and Probability
9	17.08.2020	28.08.2020	Triangles
10	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	Syllabus
11	21.09.2020	01.10.2020	Triangles
12	05.10.2020	16.10.2020	Circles
13	19.10.2020	30.10.2020	Constructions and Co-ordinate Geometry
14	02.11.2020	20.11.2020	Areas Related to Circles
15	23.11.2020	04.12.2020	Surface Areas and Volumes
16	07.12.2020	10.12.2020	Revision Cycle
Exam	11.12.2020	24.12.2020	Pre-Board 1
Exam	06.01.2021	15.01.2021	Pre-Board 2

Cycle No.	Dates from	To	Grade 10
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 10
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

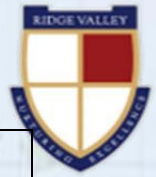
“The more you know about the past, the better you are prepared for the Future”
Theodore Roosevelt



Term 1

Cycle No.	Dates from	To	Grade 10
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 10
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

हिन्दी उन सभी गुणों से अलंकृत है जिनके बल पर वह विश्व की साहित्यिक भाषाओं की अगली श्रेणी में सभासीन हो सकती है। -

मैथिलीशरण गुप्त

Term 1

Cycle No.	Dates from	To	Grade 10
1	02.03.2020	13.03.2020	बड़े भाई साहब ,पदबंध
2	16.03.2020	27.03.2020	साखी, रचना के आधार पर वाक्य रूपांतर
3	30.03.2020	09.04.2020	अपठित गद्यांश ,अनुच्छेद लेखन
4	13.04.2020	24.04.2020	समास,पत्र लेखन
5	27.04.2020	08.05.2020	मीरा के पद, विज्ञापन लेखन
6	11.05.2020	29.05.2020	समास, हरिहर काका
Exam	29.06.2020	03.07.2020	Interim Exam
7	06.07.2020	17.07.2020	ततारा वमीरों कथा
8	20.07.2020	30.07.2020	पर्वत प्रदेश में पावस, लघु कथा लेखन
9	04.08.2020	14.08.2020	कर चले हम फिदा, गतिविधि
10	17.08.2020	28.08.2020	टोपी शुक्ला सूचना लेखन
Revision	31.08.2020	04.09.2020	Revision
Exam	07.09.2020	18.09.2020	Mid term Exam

Term2

Cycle No.	Dates from	To	Grade 10
11	21.09.2020	01.10.2020	कारतूस, वाचन कौशल गतिविधि
12	05.10.2020	16.10.2020	सपनों के-से दिन, श्रवण कौशल गतिविधि
13	19.10.2020	30.10.2020	अब कहाँ दूसरे के दुख से दुखी होने वाले
14	02.11.2020	20.11.2020	महावरे, , झेन की देन
15	23.11.2020	04.12.2020	मनुष्यता, लेखन कौशल गतिविधि
Revision	07.12.2020	10.12.2020	Revision
Pre Board I & Result	11.12.2020	24.12.2020	Pre Board I & Result
Pre Board II & Result	06.01.2021	15.01.2021	Pre Board II & Result
Result Discussion	18.01.2021	20.01.2021	Result Discussion



French

“Knowledge of languages is the doorway to wisdom.”

- Roger Bacon.

Term 1

Cycle No.	Dates from	To	Grade 10
1	30.03.2020	09.04.2020	L-1. Retrouvons nos amis
2	13.04.2020	24.04.2020	L-2 Après le bac
3	27.04.2020	08.05.2020	L-3 Chercher du travail
4	11.05.2020	29.05.2020	L- 4 . Le plaisir de lire
5	06.07.2020	17.07.2020	L-5 Les médias
6	20.07.2020	30.07.2020	L-6 Chacun ses goûts
7	04.08.2020	14.08.2020	L-7 En pleine forme
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 10
9	21.09.2020	01.10.2020	Le discours rapporté
10	05.10.2020	16.10.2020	L-8 Environnement
11	19.10.2020	29.10.2020	Les pronoms personnelle
12	02.11.2020	20.11.2020	Les pronoms relatifs
13	23.11.2020	04.12.2020	Trouver la question
14	07.12.2020	24.12.2020	La négation
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

"With languages, you are home, you are home anywhere"

Edmond D Wall

Term 1

Cycle No.	Dates from	To	Grade 10
1	30.03.2020	09.04.2020	Lesson 1- Español y tú
2	13.04.2020	24.04.2020	Lesson 1- Español y tú
3	27.04.2020	08.05.2020	Lesson 2- Una vida de película
4	11.05.2020	29.05.2020	Lesson 3 - Hogar, dulce hogar
5	06.07.2020	17.07.2020	Lesson 4 - ¿Como va todo?
6	20.07.2020	30.07.2020	Lesson 5- Guía del ocio Spanish authors and their work
7	04.08.2020	14.08.2020	Lesson 6 -No como carne
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 10
9	07.09.2020	18.09.2020	Lesson 7- No gusto mucho
10	21.09.2020	01.10.2020	Lesson 7- No gusto mucho
11	05.10.2020	16.10.2020	Lesson 8- Estamos muy bien
12	19.10.2020	29.10.2020	Lesson 8- Estamos muy bien
13	02.11.2020	20.11.2020	Lesson 9- Antes y ahora
14	23.11.2020	04.12.2020	Lesson 10- Momentos especiales
15	07.12.2020	24.12.2020	Spanish authors and their work
16	18.01.2021	29.01.2021	Revision
Pre board	01.02.21	12.02.21	
exams	01.02.21	01.02.21	
	26.02.21	12.03.21	

Computer Applications

“Code never lies; comments sometimes do.” – Ron Jeffries

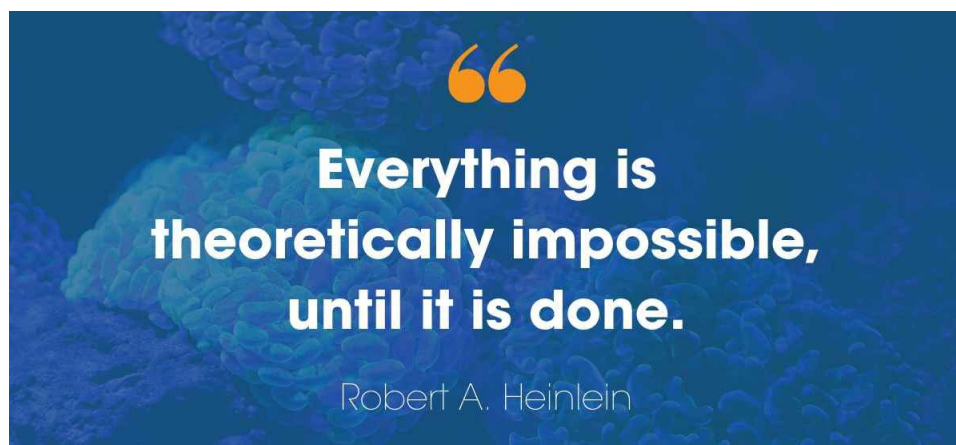
Term 1

Cycle No.	Dates from	To	Lesson
1	08.06.2020	20.06.2020	Internet Basics- WWW, Web Server, Website, Web Pages, Web Browsers, Blogs, Web Address, News Groups, HTML Protocols
2	22.06.2020	03.07.2020	Internet Services and Mobile Technologies- Information retrieval, E-mail, Search Engines, FTP, Remote Login, Web Services, Social Networking, Mobile Technologies
4	06.07.2020	17.07.2020	HTML- Introduction, history, Document Structure, Container and empty elements
5	20.07.2020	30.07.2020	HTML-I- HTML Tag Structure, Basic HTML tags and attributes
6	04.08.2020	14.08.2020	HTML-I- Heading Tags, Paragraph and Break tags. <Basefont> and Tag, HR tag, Special Characters, Combining tags, Lists in HTML
7	17.08.2020	28.08.2020	Lab activities based on HTML-I
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	HTML-II- Inserting Images, Subscripts, Superscripts, Linking
9	05.10.2020	16.10.2020	HTML-II- Sending Email using links, Tables in HTML
10	19.10.2020	30.10.2020	Lab activities based on HTML-II
11	02.11.2020	20.11.2020	CSS- Static vs Dynamic Webpages, CSS, Linking external style sheet with web page
12	23.11.2020	04.12.2020	CSS- Using multiple Types of styles together, identification and grouping of elements, grouping of elements, Limitations of CSS
13	07.12.2020	24.12.2020	Cyberethics- Ecommerce, ethical issues, Open Source vs Software licencing, Digital Divide
Revision	07.12.2020	10.12.2020	Revision
Pre Boards I	11.12.2020	24.12.2020	Pre Board - I
Pre Boards II	06.01.2021	15.01.2021	Pre Board - II

HOME SCIENCE



Term 1

Cycle No.	Dates from	To	Grade 10
1	02.03.2020	13.03.2020	Unit I : Human growth & development II a. Play (birth-5 years), role of play in growth & development of children.
2	16.03.2020	27.03.2020	Types of play active, passive, natural, serious and exploratory, selection of play material for children
3	30.03.2020	09.04.2020	Unit II: Management of Resources: Time, Energy and Money a) Time Management - Definition and Importance b) Time plans - Factors affecting time plan
4	13.04.2020	24.04.2020	Unit II: Management of Resources: c) Energy Management: Definition and Importance d) Fatigue and work Simplification
5	27.04.2020	08.05.2020	Management of Income Savings, Expenditure and Investment
6	11.05.2020	29.05.2020	Unit III : Food and Personal Hygiene a) Principles of hygienic handling and serving of food b) Hygiene in kitchen c) Personal hygiene of food handler d) Hygiene during food storage
	Extra Classes		Revision of concepts Taught
	29.06.2020	03.07.2020	Interim Exams
8	06.07.2020	17.07.2020	Unit IV :Meal Planning a) Concept of Meal Planning
9	20.07.2020	30.07.2020	Factors affecting meal planning - age, sex, climate, occupation, cost of food items, number of family members, occasion, availability of food, family traditions, likes and dislikes

10	04.08.2020	14.08.2020	Basic food groups given by ICMR d) Use of food groups in planning balanced meal for self and family
11	17.08.2020	28.08.2020	Use of food groups in planning balanced meal for self and family (c0ntd)
	31.08.2020	04.09.2020	Revision Cycle
	07.09.2020	18.09.2020	Mid term exam

Term 2

Cycle No.	Dates from	To	Grade 10
12	21.09.2020	01.10.2020	Unit V : Food Safety and Consumer Education a) Problems faced by Consumer- Price variation, poor quality, Faulty weights and measures, Non-availability of goods, Misleading information, Lack of standardized products
13	05.10.2020	16.10.2020	Food adulteration : Concept, adulterants(Metanil yellow, Argemone ,Kesari dal) and harmful effects of these adulterants on human health, c) Food Safety Standards-FSSAI (2006)
14	19.10.2020	30.10.2020	Unit VI : Care and Maintenance of Fabrics and Apparel a) Cleaning and finishing agents used in routine care of clothes. b) Stain Removal c) Storage of cotton, silk, wool and synthetics
15	02.11.2020	20.11.2020	. Childhood (3 to11 years)-Age specific milestones- Physical, motor ,social, emotional, cognitive and language Adolescents: Special Features- Physical and biological, motor ,social, emotional, Cognitive and language
16	23.11.2020	04.12.2020	Revision
17	07.12.2020	10.12.2020	Revision Cycle
	11.12.2020	24.12.2020	Pre Boards I & result
	06.01.2021	15.01.2021	Pre Board II
	18.01.2021	20.01.2021	Result Discussion