SPLIT UP SYLLABUS (2020-21)

CLASS: VIII SUBJECT: SCIENCE

MONTH: APRIL NO. OF DAYS: 10

NO. OF PERIODS: 12

TOPIC: Crop production & management Chapt-1

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|---------------------------|------------------|----------------------------------|-----------------------------------|--|
| Agricultural practice | -observation cum | -text book | -Students will be able to see the | |
| l -Preparation of soil | discussion. | -activity book | agricultural tools | |
| -methods of irrigation | | | -Students will be motivated to | |
| -weed control | | | visit crop field | |
| | | | | -They will learn the use of pesticides. *-They will learn how to store the food grains. |

SPLIT UP SYLLABUS (2020-21)

CLASS: VIII
SUBJECT: SCIENCE

MONTH : APRIL NO. OF PERIODS:15

NO. OF DAYS:12

TOPIC - Microorganisms Chapt-2

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|-----------------|----------------------------|--|--|--|
| MICRO ORGANISMS | Observation cum discussion | Types of microorganisms -friendly microorganisms -commercial & medicinal use of microorganisms -harmful effect of microorganisms -food preservation -nitrogen fixation | Students can be taken to a bakery factory Usage of preservatives for storage of food items will be discussed on the basis of the ingredients given On packaged food items | They will know the composition of antibiotics. They will know the types of plant diseases. |

SPLIT UP SYLLABUS (2020-21)

CLASS:VIII SUBJECT: SCIENCE

MONTH: JUNE NO. OF DAYS:08

NO. OF PERIODS: 09

TOPIC :Chapt-03 : Synthetic fibres & plastics

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|---|----------------------------|-------------------------------------|---|--|
| -Synthetic fibres - Characteristics of synthetic fibres -Plastics -characteristics of plastics -plastics impacts on environment | Observation cum discussion | NCERT material AWES material | Students will take care of synthetic cloths near the fireStudents will be taught the use of plastic materials | |
| | | | | They will learn the 4-R principles which Develops habits of ecofriendly. |
| | | | | |

SPLIT UP SYLLABUS (2020-21)

CLASS:VIII SUBJECT: SCIENCE

MONTH: JULY NO. OF DAYS:10

NO. OF PERIODS:12

TOPIC :Ln-04 : Metals & non-metals

| SUB- TOPICS | METHODOLOG Y | TEACHING LEARNING MATERIAL S/AIDS | INTERFACE | LEARNING OUTCOME |
|--|------------------------------|--|---|--|
| -Physical properties of metals & nonmetals -Chemical properties of metals & nonmetals -uses of metals & non metals | Demonstration cum discussion | NCERT book -AWES materials | Students will be encourage d to know the name of chemicals used at home | They will learn the uses of metals & nonmetals i in our day today life |

SPLIT UP SYLLABUS (2020-21)

CLASS: VIIISUBJECT: SCIENCE

MONTH: JULY NO. OF DAYS:07

NO. OF PERIODS:08

TOPIC :Ln-05 : Coal & Petroleum

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING Materials/Aids | INTERFACE | LEARNING OUTCOME |
|---|-------------------------------|-------------------------------------|--|--|
| -Exhaustible & Inexhaustible natural resources -Components of coal -Petroleum & its refining -Natural gases | Lecture cum discussion method | NCERT textbook -AWES material | The use of coal & petroleum Will be taught. | -Students will learn the use of petrochemicals -They will also learn the judicious use of petroleum. |

SPLIT UP SYLLABUS (2020-21)

CLASS:VIII SUBJECT: SCIENCE

MONTH: JULY NO. OF DAYS:07

NO. OF PERIODS:09

TOPIC :Ln-06 : Combustion & flame

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|---|----------------------------|-------------------------------------|--|--|
| Combustion -Factors of combustion -Types of combustion -Flame -Fuel -Efficiency of fuel | Observation cum discussion | NCERT book -AWES book | The teacher will cooperate the child to know the use of fire extinguisher at home. | -They will learn the efficiency of an engine -They will learn how to check global warming & greenhouse effect. |

SPLIT UP SYLLABUS (2020-21)

CLASS: VIII SUBJECT: SCIENCE

MONTH: AUGUST NO. OF DAYS: 12

NO. OF PERIODS: 13

TOPIC :Ln-07: Conservation of plants & animals

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|--|-------------------------------|----------------------------------|---|---|
| Deforestation& causes -consequences of deforestation -conservation of forest & wild life -Biosphere reserve -Flora & faunaEndemic species -Wild life sanctuary -National park -Red data book -Migration -Recycling of paper -Reforestation | Lecture cum discussion method | NCERT book -AWES book | -The teacher should encourage the child to know the wild life sanctuariesthe parent should accompany the child to visit national park also. | They should gain knowledge on red data book. -They should be motivated in the plantation of trees. -They will be motivated to take care of animals. |

SPLIT UP SYLLABUS (2020-21)

CLASS:VIII SUBJECT: SCIENCE

MONTH: AUGUST NO. OF DAYS:12

NO. OF PERIODS: 13

Topic-CELL STRUCTURE & FUNCTION

In-8

| | | TEACHING | | |
|--|---|-----------------------------|--|---|
| SUB- TOPICS | METHODOLOGY | LEARNING | INTERFACE | LEARNING OUTCOME |
| | | MATERIALS/AIDS | | |
| Discovery of the cell -cell & number -shape of cells -size of the cell -cell structure & function -parts of the cells -comparison of plant & animal cell | Demonstration method. Observation cum discussion method | NCERT book AWES material | Teacher will motivate the student in knowing different types of egg cells. | They will gain the knowledge on plant & animal cell by activity methodThey will differentiate between plant & animal cell |

SPLIT UP SYLLABUS (2020-21)

CLASS:VIII SUBJECT: SCIENCE

MONTH: SEPTEMBER NO. OF DAYS:07

NO.OF PERIODS:08

TOPIC :Ln-11: FORCE &PRESSURE

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|--|------------------------------|--|--|--|
| Force-pull & push -force due to interaction -Exploring force -Force can change the state of motion -Force can change the shape of an object - Contact force -Noncontact force Pressure -atmospheric pressure -pressure exerted by liquid & gas | Demonstration cum discussion | NCERT book -AWES material | Teacher will motivate the child to do various activities with the help of their parents. | Through activity the teacher will motivate the students on force & pressure. |

SPLIT UP SYLLABUS (2020-21)

CLASS: VIII SUBJECT: SCIENCE

MONTH: SEPTEMBER NO. OF DAYS: 07

NO. OF PERIODS:08

TOPIC :Ln-12: FRICTION

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|--|------------------------------|-------------------------------------|---|---|
| Force of friction -factors affecting friction -friction a necessary evil -increasing & reducing friction -wheels reduce friction -fluid friction | Demonstration cum discussion | NCERT book -AWES material | The child will learn the friction as a force in different situations. | Through activity the teacher will motivate the student on friction. |

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SPLIT UP SYLLABUS (2020-21)

CLASS: VIII SUBJECT: SCIENCE

NO. OF DAYS: 07

MONTH :OCTOBER NO. OF PERIODS: 08

TOPIC :Ln-13 :sound

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|--|------------------------------|-------------------------------------|---|--|
| -Sound by vibration of object -sound produced by human -sound needs a medium -structure of ear -terms related to sound -audible & in audible sound -noise pollution. | Demonstration cum discussion | NCERT book -AWES material | The parents will teach them how to take care of ears. | They will learn how to apply their knowledge in everyday life. |

SPLIT UP SYLLABUS (2020-21)

CLASS:VIII SUBJECT: SCIENCE

MONTH: OCTOBER NO. OF DAYS: 05

NO. OF PERIODS: 06

TOPIC :Ln-14: CHEMICAL EFFECT OF CURRENT

| SUB- TOPICS | METHODO LOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|--|-----------------|----------------------------------|---|---|
| *Liquid conducts current -chemical effect of current -Electroplating | Demon stration | NCERT book AWES material | Teacher will motivate by providing the materials required for activity. | They will learn how the electroplating is made in day today life. They will learn the conductor and insulator. |

SPLIT UP SYLLABUS (2020-21)

CLASS: VIII SUBJECT: SCIENCE

MONTH: NOVEMBER NO. OF DAYS:07

NO. OF PERIODS:08

TOPIC :Ln-16 : LIGHT

| SUB- TOPICS | METHODOL OGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME | |
|--|---------------------|----------------------------------|---|---|--|
| *Reflection Laws of reflection Structure and function of eye | ❖ Demon stration | NCERT book AWES material | Students will be motivated to take care of their eyes | Students will understand how light reflects from various surfaces. Understand the structure and function of eyes. | |

SPLIT UP SYLLABUS (2020-21)

CLASS: VIII SUBJECT: SCIENCE

MONTH: NOVEMBER NO. OF DAYS:07

NO .OF PERIODS:08

CHAPTER- 17-Solarsystem

| SUB- TOPICS | METHODO LOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|--|--|---|--|--|
| Moon Phases of moon The stars Constellations The planets Members of solar system Artificial satellites | Observ ation cum discuss ion method | NCERT book AWES material | Teacher will motivate by providing the opportunity to visit to the planetarium . | They will learn how the artificial satellites function. They will know the applications of artificial satellites. |

SPLIT UP SYLLABUS (2020-21)

CLASS: VIII SUBJECT: SCIENCE

MONTH: NOVEMBER NO. OF DAYS:07

NO. OF PERIODS:08

CHAPTER-18 -Pollution of water & air.

| SUB- TOPICS | METHODO LOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|--|---|---|--|--|
| Air pollution Causes of air pollution -Case study – The Tajmahal Green house effect Water pollution Ganga action plan How to get potable water | Demon strationDiscussion | NCERT book AWES material | Teacher will motivate how to keep surrounding clean. | They will learn how to keep healthy environment How to get clean water at home. |

SPLIT UP SYLLABUS (2020-21)

CLASS: VIII SUBJECT: SCIENCE

MONTH: DECEMBER NO. OF DAYS: 07

NO. OF PERIODS: 08

TOPIC :Ln-10 : Reaching the age of adolescence

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|--|----------------------|--|---|--|
| Adolescence & puberty Changes at puberty Secondary sexual characters Role of hormones Reproductive phases of life in humans Determination of sex Role of hormones in completing the life history of insects & frogs. | Discussion method | NCERT BOOK AWES material | Teacher should guide how to take care of health during adolescence period. Parents can help their wards regarding this. | They should be aware of nutrition during adolescence period. |

SPLIT UP SYLLABUS (2020-21)

CLASS: VIII SUBJECT: SCIENCE

MONTH: December NO. OF DAYS:07

NO. OF PERIODS:08

TOPIC :Ln-09 : Reproduction in animals

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|--|---------------------------------|-------------------------------------|---|---|
| Mode of reproduction Reproductive organs Sexual reproduction Male & female reproductive organs Fertilisation & its type Development of embryo Asexual reproduction | Explanation & discussion method | NCERT BOOK AWES BOOK | Teacher will counsel the students during adolescent period. | They will gain the knowledge on reproduction. |

SPLIT UP SYLLABUS (2020-21)

CLASS:VIII SUBJECT: SCIENCE

NUMBER OF DAYS:07

MONTH: JANUARY PERIODS:08

TOPIC :Ln-15 : Some natural phenomena

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|--|-------------------------------|----------------------------------|--|---|
| Lightning Charging by rubbing Types of charges & interaction. Transfer of charge Story of Lightning Lightning safety Lightning conductor Earthquake Causes of earthquake | Discussion method Explanation | NCERT BOOK AWES BOOK | Teacher will teach them on earthquake. Students should take care during lightning. | They should learn how to take safety during cyclone, earth quake & lightning. |

SPLIT UP SYLLABUS (2020-21)

CLASS:VIII SUBJECT: SCIENCE

NO.OF DAYS:

MONTH: FEB&MARCH NO.OF PERIODS:

| SUB- TOPICS | METHODOLOGY | TEACHING LEARNING MATERIALS/AIDS | INTERFACE | LEARNING OUTCOME |
|---------------------------------|-------------|----------------------------------|-----------|------------------|
| REVISION AND ANNUAL EXAMINATION | | MAI ERIALO/AIDO | | |
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