

SUMMER HOLIDAY HOMEWORK GRADE – VIII

SESSION: 2022-23

Dear Parents
Greetings!

Wishing you a happy summer! May the good sunshine of this season fill your life with glee and glow and bring your heart love and laughter!

Here are a few activities planned to encourage students to explore, engage and enjoy while they learn a lot! Waiting to listen to them as they share their memories once they are back to school! Have a safe and joyous vacation!

NOTE: Click videos and pictures while students are performing all the activities and share them in the google drive with a folder containing their name and section. Link has been provided for the same.

https://drive.google.com/drive/folders/1O-NO2h_RDTa2EED7yrWqB7v2KsZxdqm7?usp=sharing

Team Meridian



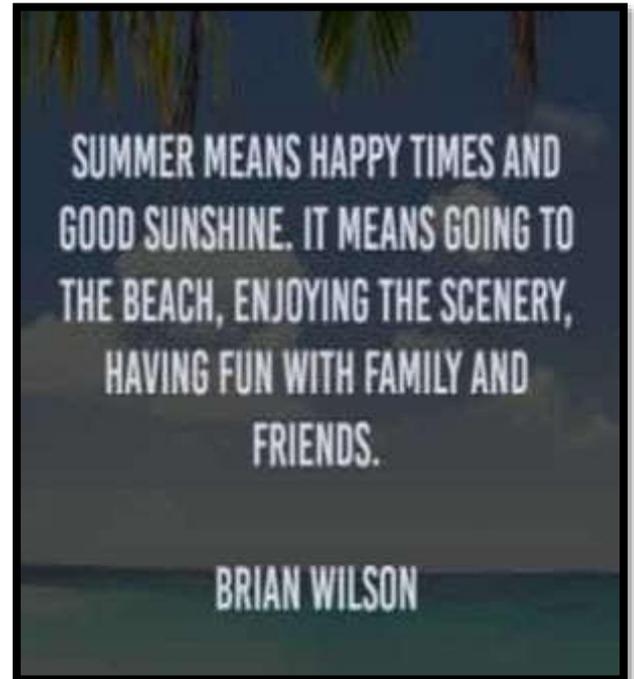
Dear Students

Summer Vacation is the best time of the year for you all; it is time for loads of fun. After a two – year hiatus, we are all back to school.

“Learning at school has provided students with a plethora of activities to help the modern -day learners come at pace with the challenges.

Gone are the days when the process of learning and imparting lessons was a conventional process compressed into rigorous models.

To make learning a fun and 360-degree experience for the students, we have laid down the importance of holiday homework in making learning an enriching experience.



Some tips to make this holiday special:

- Have a family dinner every day of the holidays.
- Play board games with your parents and siblings and show them who is the smartest.
- Spend some quality time with an elderly person in the family.



Some dos during summer vacation:

- Eat a nutritious diet with plenty of water. Include citrus fruits. (Orange, lemon, grapefruit) and vegetables which are rich in vitamin C, vitamin D containing foods (cheese, egg yolks) and zinc-containing foods (legumes, lentils, beans and nuts).
- Wear light cotton clothes.
- Be a leader in keeping yourself, your school, family, and community healthy.
- Birds need you this summer. Summer is at its peak. Make a small bird feeder and place bird baths for thirsty birds in terraces, compound walls and balconies.
- Do your bit to save them. Spread this message!!



A LEADER IN ME!

What kind of a leader do you want to be?

It's time to step up, speak out and be proud. Ask yourself, now.

- Desire – What do you really want?
- Passion – What lights your fire, and fills you with passion?
- Goals – What are your primary goals?

If I get a chance to be a part of my school cabinet, I wish to be _____ . (Head Boy/Head Girl/Prefect)

- Introspection: Is there a leader in me?
- What are the requisites to become a good leader? Do I really have them?

Activity 1: Introspect and write a paragraph in about 100-120 words on an A4 sheet, giving your opinion and also explaining why you think you are the right candidate for that role. How confident are you that you will win? What makes you think so?

Here are a few points to ponder. You can include some of these details in your paragraph.

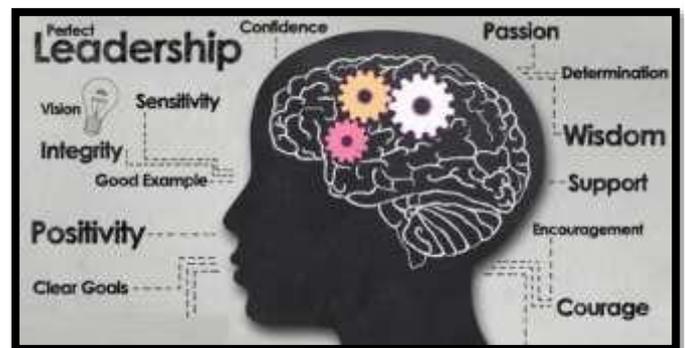
When was the last time you articulated, reviewed, or reflected on your personal values? Take time to do this activity. Reflect on the following questions.

Understanding your personal values is the first step to self-awareness and is an important area of self-reflection in leadership. That said, we often develop our most important values unconsciously. Let's bring them to consciousness.

- A leader you admire – Think of the person you admire the most. Which three words or phrases describe the qualities you admire in them?
- Your legacy – What do you want to be remembered for?
- Core values – What are your values? Which things, people and qualities are most important to you?

Self-reflection and self-knowledge mean exploring who you are and what you want – and specifically, identifying what you want your leadership to look like. Self-reflection also accelerates improvement in your leadership skills and practice – and enables you to better understand others.

Activity 2: Spend time with your parents, grandparents, and other family members to find out about who is their ideal leader in terms of state, national and international levels.



Record them in a table. You can use this as a sample, though you can choose to be as creative as you can, in your presentation. (Use an A-4 sheet to present your work)

STATE	NATIONAL	INTERNATIONAL
Name of the leader:	Name of the leader:	Name of the leader:
Which state:		
His/her leadership attributes noteworthy:	His/her leadership attributes noteworthy:	His/her leadership attributes noteworthy:
Any other information:	Any other information:	Any other information:

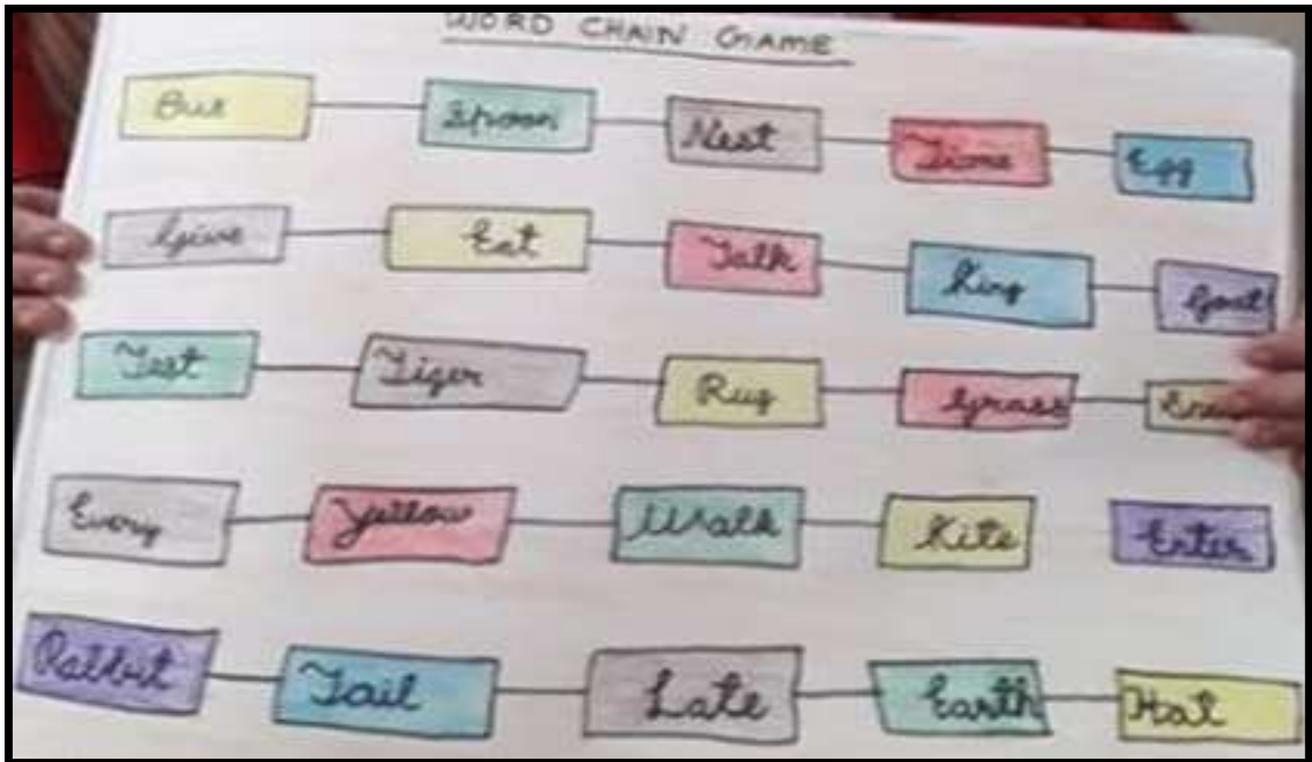
Also read a biography/autobiography of any famous leader and give your book-review for the same.

Activity 3:

(i) Word Chain

Collect 30-50 words related to elections and create a word chain. A sample is given below.

Ex. election. Now with the last letter being 'n' the next word in the word chain can be national, now the last letter is 'l' so the next word in the word chain can be 'legal' and so on.



You can present it as shown in the above picture or any other creative way. (On a chart or A4 sheet)

WORDLE

A DAILY WORD GAME

As an alternative, students can collect as many words as they can, then create and customize a mini-wordle game of their own.



(ii) **Poetree for fun:** Try to draft a poem of your own in terms of the words you have collected above. It can be a free verse, a couplet, or an acrostic. (A4 sheet) Once back to school each class would have their own POETREE!

(iii) Election Idioms

Collect five idioms related to elections. Write them down on an A4 sheet (white/coloured) giving the meaning and a sample sentence to understand its usage. As an alternative, students can also make idiom cards as discussed in class.

NOTE: All that is planned as English Holiday Homework and done on A4 sheets can be tied together using a satin ribbon and the cover page can be designed using one's own art creativity.

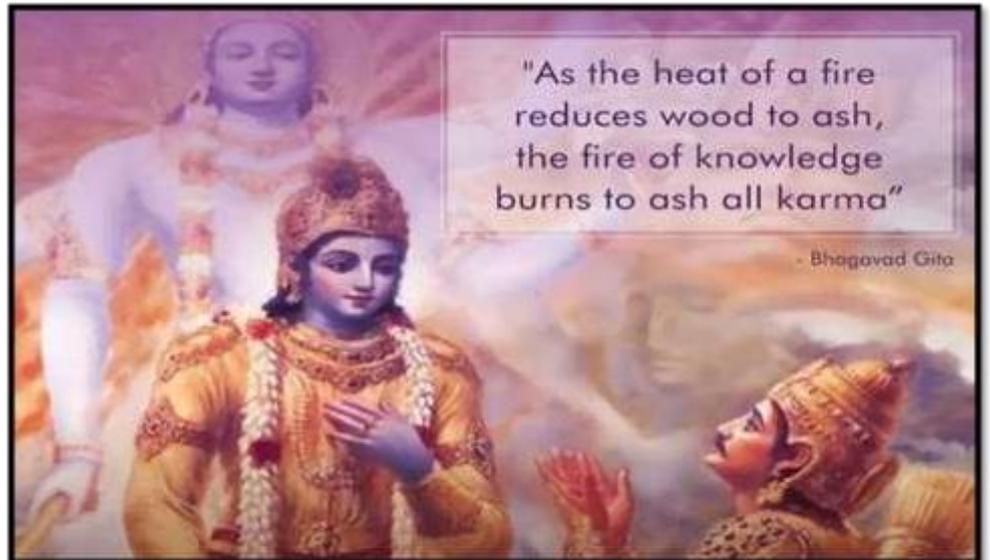
Activity 4:(in Hindi) (To be done on A4 sheets)

1. मतदान जागरूकता पर 20-30 शब्दों में एक आकर्षित नारा
2. मतदान का महत्व बताते हुए दो मंत्रों के बीच हुई बातचीत को संवाद के रूप में र्िरे।



(in Sanskrit)

- Write down two shlokas from The Bhagawad Gita and translate them into English/Hindi.
- Make a poster similar to the one which is shared. Use a chart paper and be as creative as you can!





ఒక వ్యక్తిని నాయకునిగా ఎన్నుకోవటానికి **ఎన్నికలు** (Elections) నిర్వహిస్తారు. సాధారణంగా ప్రజా ప్రతినిధిని ఎన్నికల ద్వారా ఎన్నుకుంటాం. దీనిని ఏ రంగంలోనైనా నాయకుడిని ఎన్నుకోనుటకు ఉపయోగించ వచ్చు. ఎన్నికలలో నాయకులు కావాలనుకుంటున్న వ్యక్తులు పోటీ చేస్తారు. కానీ కొన్నిసార్లు ఒకరే అభ్యర్థి నిలబడినప్పుడు లేదా ఇతర అభ్యర్థులు తొలగినప్పుడు ఏకగ్రీవ ఎన్నిక జరుగుతుంది.

ప్రశ్నలు

1. ఎన్నికల ఆవశ్యకతను తెలుపుతూ కొన్ని వినాదాలు వ్రాయండి.
2. ఎన్నికల గొప్పతనం తెలియజేస్తూ కరపత్రం వ్రాయండి.
3. మీ ప్రాంతంలో జరిగిన ఎన్నికలలో గెలిచిన వారి గురించి వివరిస్తూ మీ స్నేహితునికి లేఖ వ్రాయండి.

Activity 5: (has Part A and Part B)

Maths is related to our lives; it teaches us to be careful with the signs.

General Guidelines for students:

1. This activity is given to keep you logically and mathematically sound during the holidays, so please do it judiciously.
2. Do all the tasks on A4 sheets.
3. Your project needs to have a cover page, introduction, content, and conclusion. Be as creative as you can!
4. Clearly mention both the parts/ sections of your summer holiday homework neatly.
5. Presentation carries marks.
6. Number the questions in serial order.
7. Do online surveys, wherever required.
8. We wish you enjoy your holidays but at the same time also stay connected with mathematics by revising and completing some interesting activities.

Your holiday homework has two parts: Part A and Part B.

Work Specification

1. Part A: Project on Data Handling.
2. Part B: Questions on the topics done so far and logical questions.

Materials Required:

- Use highlighters and colours to enhance your project.
- Use graph papers.

Part A:

1. Conduct a survey asking your friends whom they voted in school elections which were held recently; represent the information in the form of a bar graph or a pie chart.
2. Collect the data of the number of seats won by different political parties in the polling outcome of any five state assembly elections:
 - (i) Draw a bar graph or histogram to represent the polling results.
 - (ii) Find the percentage of vote share obtained by the political parties.

Part B:

- Multiplication Tables form the base of Mathematics. Learning Tables are important. Tables make the most complex calculations easy. To facilitate the memorization of Maths multiplication tables, it is important to visualise the tables and recite them. Practising the tables by learning them is another way to memorise them.
 - Learn tables of 2 to 20.
 - Write properties of Rational properties on A4 sheet with examples.
 - Solve the given Rich Learning Tool. (RLT)

Math RLT

1. W 1 R % 4 J E # 7 M T 2 I 9 B H 3 A 9 F Q 5 D G 6 U S P. Which of the following is the seventh to the right of the eighteenth from the right end?

- (a) A (b) \$ (c) E (d) #

2. A family consists of six members P, Q, R, X, Y and Z. P and R are a married couple. Q is the son of R but R is not the mother of Q. Y is the brother of R. X is the daughter of P. Z is the brother of P. How many female members are there in the family?

- (a) One (b) Two (c) Three (d) Four

3. If A is coded as +, B is coded as -, C is coded as * and D is coded as / then evaluate $3 A 4 B 5 C 7 D 5 C 2$?

- (a) - 6 (b) - 7 (c) 3 (d) 13

4. If '1 A B + C C A = 8 9 5' and there is no carry-on addition, then the value of B is

- (a) 3 (b) 7 (c) 4 (d) 2

5. Find the value of $a + b + c$, if $373a$ is divisible by 9, $473b$ is divisible by 11 and $371c$ is divisible by 6.

- (a) 7 (b) 6 (c) 0 (d) 9

6. The values of A and B in the given addition respectively are ____.

$$\begin{array}{r} 23A \\ + A3B \\ \hline 6B1 \end{array}$$

7. The greatest value that must be given to y so that the number $7713y8$ is divisible by 4 is_____.

- (a) 4, 7 (b) 7, 4 (c) 5, 6 (d) 6, 5

8. Given that the number $148101a095$ is divisible by 11, where a is a single digit number, What are the possible values of a?

- (a) 4 (b) 1 (c) 7 (d) 9

9. A grid with magic number 15 is given in the figure where the sum of the rows, sum of the columns and sum diagonally is 15.

2	7	6	→15
9	5	1	→15
4	3	8	→15

15 ↙ ↓ ↓ ↓ ↘ 15

Prepare a grid with magic number 30. You can choose any set of numbers in sequence but the numbers should not be repeated.

10. The front door of my house faces East. If I walk out of my back door and walk 50 m, then turned right and walk another 60 m, then turn left and walk 20 m and turn right and walk 40 km. In which direction am I facing with respect to starting point?

(a) South-West

(b) North-East

(c) North-West

(d) South-East

Activity 6:

FLAG AND LOGO MAKING

Recently elections were held in Meridian School, Madhapur and the House Prefects for 2022-23 got selected. If you are given a chance to design a flag, how would you design it?

Bring out the best creativity in you!

Design creative logos and flags by using various synthetic Fibres for the Houses mentioned below.

Amon-Re, Surya, Helios, Mithras, Sol

Synthetic fibres are man-made fibres; most of them are prepared from raw material petroleum called petrochemicals. All fabrics are obtained from fibres, while fibres are obtained from artificial or man-made sources. They consist of a small unit or a polymer which is made from many repeating units known as monomers. They include nylon, acrylics, polyurethane, and polypropylene. Millions of tons of these fibres are produced all over the world each year.



Judgement Criteria

Creativity, Effort, Skill, Use of different fibres, Presentation

Activity 7:

Project on Sericulture-the cultivation of silk for production of silk fabrics and textiles

Silk is a natural protein fibre, some forms of which can be woven into textiles. The protein fibre of silk is produced by certain insect larvae to form cocoons. The best-known silk is obtained from the cocoons of the larvae of the mulberry silkworm *Bombyx mori* reared in captivity (sericulture).

Sericulture is an Agro-Based industry. It involves rearing of silkworms for the production of raw silk, which is the yarn obtained out of cocoons spun by certain species of insects. The major activities of sericulture comprise of food-plant cultivation(mulberry) to feed the silkworms and reeling the cocoons for unwinding the silk filament for value added benefits such as processing and weaving.



Rayon is a versatile fibre and is widely claimed to have the same comfort properties as natural fibre-silk.

Here is a chance to do a research and make an interesting project.

Guidelines for the project:

Make a project showing rearing of silkworms in the following sequence (with the help of flow charts, pictures and drawings)

Silk Cultivation – Rearing Silkworms
Processing the Cocoons
Sorting of Cocoons
Different Types of Silk Yarn
Caring and Cleaning Your Silk Duvet

Presentation-You need to submit your research work on coloured /white A-4 sheets with a nicely designed cover page.

Activity 8:

This activity consists of two parts: Part A and Part B.

It is mandatory to attempt both the parts.

Work Specification:

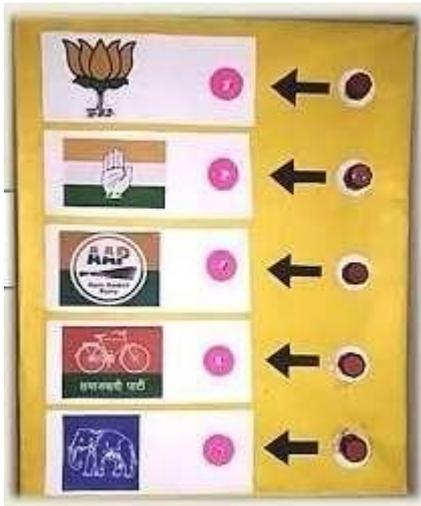
Part A: Working model of Electronic Voting Machine(EVM).

Part B: Questions on the topics done so far and logical questions.

Guidelines for Part A:

- The model should be a working one.
- The theory, working, circuit diagram should be neatly presented on A4 sheets.
- There should be a cover page, content, introduction, and conclusion along with the above.
- All the writing part should be done on A4 sheets only.
- Draw margins and mention Part A on the cover page.
- Presentation of the working model carries marks.

Electronic voting machine(EVM)



Aim: To make a working model of electronic voting machine.

Materials needed:

- Print out of the contestants in an election with party symbols on an A4 sheet.
- Cardboard of the required size(A4 preferably).
- Red LED bulbs(5-6)
- SPST Switches(5-6)
- Copper wires/Aluminium foil
- Piezoelectric buzzer
- Battery(9V or of suitable volt)



Fig:Red LEDs



Fig:Piezoelectric buzzer



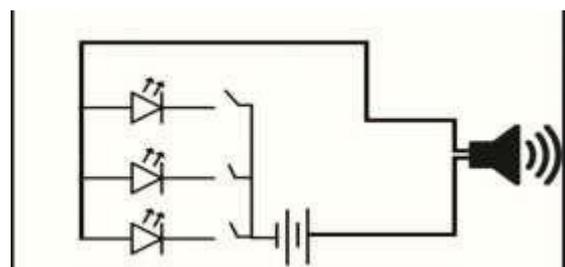
Fig:SPST switch



Fig:9V battery



Fig:Copper wires



Circuit diagram

Please note: Symbols in the circuit diagram carry their usual meanings.

Procedure:

- Take a colour print out of the contestants of an election with party symbol on an A4 sheet.
- Cut the cardboard into A4 size.
- Place the printout on top of the cardboard and mark the positions of the SPST switches with the back side of a pen.
- Remove the printout and mark the positions of the switches on the cardboard with the help of a pencil.
- Cut out/Drill the marked positions according to the size of the switches.
- Place the switches on the suitable positions.

7. Apply superglue(a very strong quick-setting adhesive available in any hardware store) on the sides of the switches on the back side so that they remain intact with the cardboard.
8. Paste the printout on the cardboard.
9. Insert all the LEDs in the ellipse on the printout.
10. Make the circuit connection according to the circuit diagram.
11. Paste an aluminium foil across all the ends of the LED legs.
12. Connect another end of the LED leg with the switches.
13. Refer to the link <https://youtu.be/R7WqwHqlruY> for circuit connection.

Please note: The model has to be presented in the respective classes in Physics period once the school reopens. Students should be able to explain the principle, the materials needed ,construction ,circuit diagram and working of the model in a systematic manner.

Part B: Questions on the topics done so far and logical questions.

Guidelines for Part B:

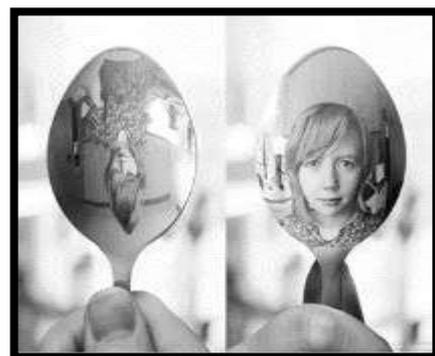
- The answers should be written neatly on A4 sheets.
- Include diagrams of mirrors or lenses/ray diagrams wherever needed along with the answers.
- All the diagrams should be drawn with pencil only.
- Draw margins and mention Part B on the first page.
- Part B carries marks for correct answers, ray diagrams etc.

1. Ravi and Venu went to see the fair in their city. They saw a huge crowd outside a makeshift hall. They went there and after paying for the ticket, entered the hall. They saw that inside the hall, there were mirrors of different shapes and sizes leaning against the walls of the hall. Ravi went in front of a big mirror and started laughing at himself. Venu came there and he also started laughing. In the mirror, Ravi's head was appearing too small like a cricket ball. His chest and stomach appeared too wide and his legs were of same size. Later they found that the mirror is the combination of different types of mirrors in a single piece.



- (a) Why was Ravi's head appearing so small?
- (b) Why was Ravi's middle part of the body appearing too wide?
- (c) What could be the reason for the same size of Ravi's legs in the lower part of the mirror?

2. Mukti was looking into the outer and inner faces of a new steel spoon. She found that she could see her clear image in both the faces of the spoon, but in one face, the image was erect and in the other face ,the image was inverted .She discussed this with her Physics teacher who explained her clearly the reasons. She got satisfied and was happy to know the new thing.



- (a) Which face(side) of the spoon forms erect image and why?
- (b) Which side of the spoon forms inverted image and why?
- (c) What value do you learn from Mukti?

3. Activity based question:

For the activity you need:

- a) Plane mirrors of varied sizes.
- b) Concave mirror.
- c) Convex mirror.
 - Observe the image of a distant object, say a distant tree or pole, in a plane mirror.
 - Do you see a full length image?
 - Try this activity with plane mirrors of varied sizes. Did you see the entire object in the image?
 - Repeat this activity with a concave mirror also. Does the concave mirror also show full length image of the object?
 - Now try using a convex mirror. Do you succeed? Explain your observations with reason.

4. One day the Physics teacher went to the Physics laboratory along with the students to show them the different types of mirrors and lenses. The teacher demonstrated the students, the formation of images by the mirrors and lenses. He then took a convex lens and formed image of the Sun on a sheet of paper. He kept the lens in the same position for some time. Then, to the surprise of the students, the paper started burning from the part where the image of the Sun was formed. The teacher explained the reasons behind that observation. Suddenly Ravi took the convex lens and started looking towards the Sun through it. The teacher saw this and stopped him immediately and asked all the students never to do that in future.

- (a) What is the nature of the image of the Sun formed by the convex lens paper?
- (b) Why did the paper start burning?
- (c) Why did the teacher stop Ravi?
- (d) What do you learn from Ravi's behaviour?



Activity 9:

THEME - ELECTIONS

“Great leaders don't tell you what to do, they tell you how it is done.”

Elections are an integral and essential part of a school. It is a process where the candidates need to show their achievements to prove that they are capable. This was done through offline canvassing this year.

The students of grade 9 to 12 participated in the polls on 21 April 2022, to elect the representatives of the school cabinet.

The right to vote is viewed as a right, privilege, duty, and responsibility.

So, this election 2022-2023 provided a way for the students to assert their voice, opinion and choose their leaders by casting votes in favour of their candidates.

Being a student representative is so rewarding, especially when you see the change and the impact on the students' lives during their time in school.



Somewhere inside these great leaders there is the power to change the world.

We wish all the elected representatives of the School Cabinet to do their duties sincerely, responsibly and to the best of their ability.

Inspired by the seniors, students of grade 8 are excited to delve into the details of elections and leaders and learn more about them.

So, to take this excitement further, a few activities are given below to make learning more joyful!!!



Guidelines for Activity-9 (To be done on A4 sheets)

- Data collection of the constituencies of Telangana: Explanation about constituency and its importance
- Imagine that you are a contesting candidate in General Election!
What are the eligibility criteria to contest in an election?

Activity-10 (on an A4 sheet.)

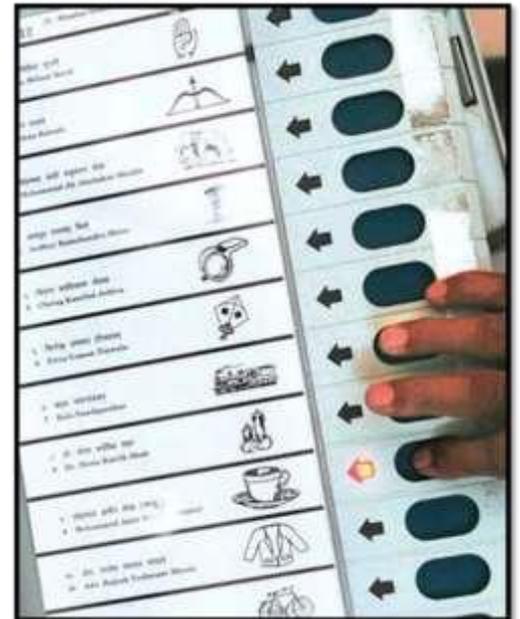
- Write about the Nomination process in detail.

Activity-11 (To be done on a chart paper)

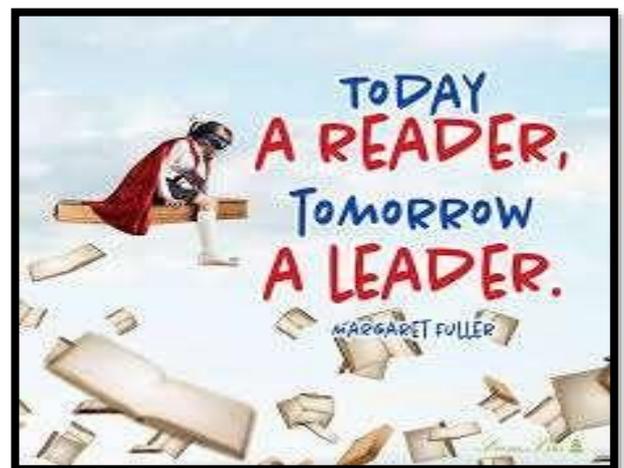
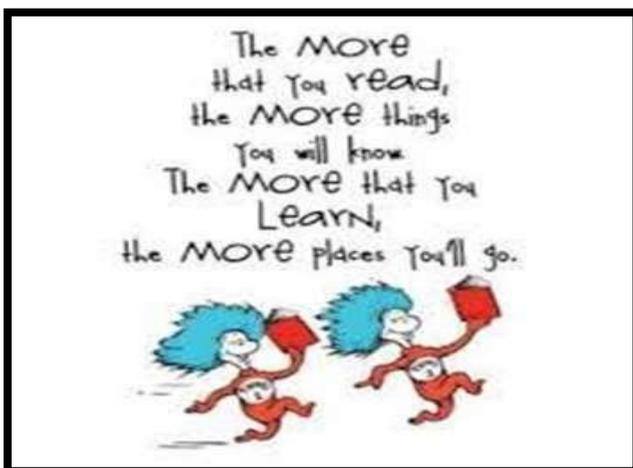
- Design your own Manifesto!(Poster Making)

Activity-12 (To be done on A4 sheets)

- Design any three National and two State Party Symbols.



Do not forget to read newspaper daily and also read as many books as you can !!!



SUMMER BREAK



Vacation!