ST TERESA CONVENT SCHOOL

Summer Vacation

HOLIDAY Homework

GRADE: IX
Session: 2021-22

Homework Folder

Holidays are time when you can connect with your child in many ways. As parents are the first and the most important teacher for a child, we can encourage our child to participate in many educational activities at home and promote his/her quest to learn. Working together will not only help your child to build, learn and develop his/her skills but also strengthen your bond with him/her.

General instructions for the Holidays Homework

Instructions for students:-

Try to do your vacation work by yourself.
Use separate Note book for each subject.
Writing should be very good and neat.
Do all work under the guidance of your parents and guardians.
Do all work with date & day.
Try to do your written work regularly to enhance your writing power.
Pay special attention towards your health and caring.
Don't Play in the sunshine or on hot places.
Try to Pray God Daily.

Instructions for Parents:-

Holiday homework has to be done under the parental guidance.
Kindly complete and send the homework in a paper bag on the first day after the summer break.
Make your ward read resource books.
Make your ward learn and remember his/her parents mobile /landline number, house address etc, to make him/her independent and secure.
Do any creative act, which you are good at with your ward and send it to school after vacations.
Fix up a time table for your ward to organize his/her daily routine like, watching television,
playing with friends, studying etc.
Make your child responsible by assigning some of the household responsibilities to him/her like, watering plants, arranging the dining table, organizing his/her room and cupboards, fill the empty water bottles and put them in refrigerator.
Above mentioned guidelines will help your child to become a smart and an active learner.

Marks Allocated: 10 marks

Subject Teacher: Ms. Neha Sharma

Email Id: sharma.nehachestha@gmail.com

Activity-1 Write an autobiography of Abdul Kalam on A4 sheet with the picture.(Roll numbers 1-15)

Activity 2- Prepare a mini book (choose any one topic) and paste pictures of it.(Roll numbers 16-28)
1) Save the girl child
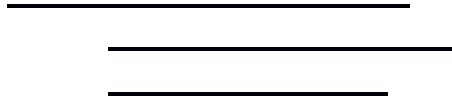2) Health and Hygiene
3) Save the environment.

Activity 3- Write a comparison with the help of picture - privileged children and under - privileged children. Express your views or emotions for these pictures with the help of emojis.(Roll numbers 29-40)

Being locked down at home might have impacted you. You all used to previously enjoy an extensive part of the life in the company of others. Considering the fact that lockdown to has its upsides, write an article in about 200-250 words.
• Lockdown- Positive Impacts of being at home. (Roll No- 1 to 10)
• Lockdown- An opportunity to connect with family. (Roll No- 11 to 20)
• Lockdown- Frontline heroes of the Coronavirus War. (Roll No- 21 to 30)
• Lockdown-How people all over the world are living through the pandemic.(Roll No- 31 to 40)

Revise Literature & Grammar syllabus done in the Notebooks.

Do worksheet no 1,2,3 from Bravia.

_____ : 10 ___

Subject Teacher: Ms. Rupan Bhanot

Email Id: hindistcs@gmail.com

A4

Marks Allocated: 10 marks

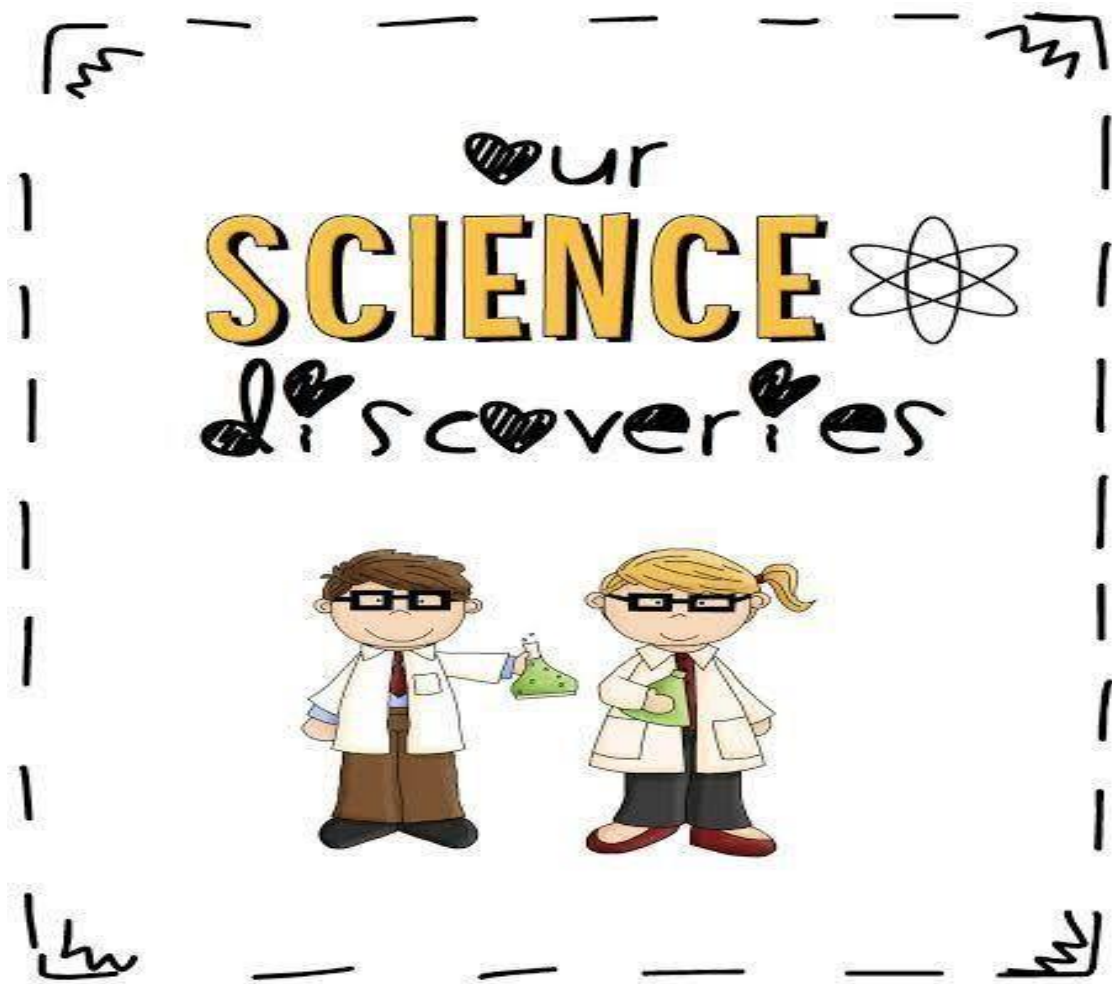Subject Teacher: Mr. Subhash Chander

Email Id: shubhdhiman777@gmail.com

Mathematics Worksheet

Class IX

1. Find a rational number between $\frac{1}{3}$ and $\frac{2}{7}$.

2. Find a rational number between $\frac{1}{2}$ and $\frac{2}{3}$.

3. Show that the following repeating decimals are rational numbers (in p/q form).
   (i) $1.\overline{27}$ (ii) $0.23\overline{5}$ (iii) $0.12\overline{3}$

4. Without actual division, find which of the following rational numbers are terminating decimals.
   (i) $\frac{7}{16}$ (ii) $\frac{21}{80}$ (iii) $\frac{136}{250}$ (iv) $\frac{5}{6}$

5. (i) Add $2+5\sqrt{3}$ and $-7-5\sqrt{3}$.
   (ii) Subtract $\sqrt{2} - 3\sqrt{3}$ from $3\sqrt{2} + 5\sqrt{3}$.
   (iii) $(\sqrt{11} + \sqrt{7})(\sqrt{11} + \sqrt{7})$

6. Rationalize the denominator of the following : (i) $\frac{1}{7+3\sqrt{2}}$ (ii) $\frac{5}{\sqrt{3+\sqrt{5}}}$ (iii) $\frac{3\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}}$

7. If a and b are rational numbers and $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a - b\sqrt{3}$, find the values of a and b.

8. Simplify the following :   (i) $\frac{7^{\frac{1}{5}}}{7^{\frac{1}{3}}}$ (ii) $\left(\frac{1}{27}\right)^{\frac{-2}{3}}$ (iii) $\left[\left(625^{\frac{-1}{2}}\right)^{\frac{-1}{4}}\right]^2$

9. Write two irrational numbers between 4/9 and 7/11.

10. State whether the following statements are true or false. (i) Every natural number is a whole number.
    (ii) Every integer is a whole number.
    (iii) Every rational number is an integer.
    (iv) Every real number is an irrational number.
    (v) Every irrational number is a real number.

Activity : Make a chart on Laws of Exponent

Marks Allocated: 10 marks

Subject Teacher: Ms. Shweta Brar and Ms. Sandhya

Email Id: shweta.brar86@gmail.com, aggarwalsandhya6@gmail.com

PHYSICS AND CHEMISTRY
(CLASS-IX)

PHYSICS
1. Plan to go to a place by a vehicle. Take readings of odometer and speedometer after every 5minutes till you reach your destination. Record these observations in tabular form; plot graphs between distance-time and speed time. State whether this motion is uniform or non uniform.

Worksheet
2. Answer the following questions:

What is the acceleration of a body moving with uniform velocity?

What does the slope of a distance-time graph gives?

Can displacement be zero even when distance is not zero? Give Example.

How can you get speed of an object from its distance – time graph?

How can you get distance of an object from its speed – time graph?

Can a body have zero velocity and still acceleration? Give example.

Is it possible in straight line motion a particle having zero speed and a non-zero velocity? Explain.

On a 60 km straight road, a bus travels the first 30 km with a uniform speed of 30 kmh-1 . How fast must the bus travel the next 30 km so as to have average speed of 40 kmh-1 for the entire trip?

A driver takes 0.20 seconds to apply the brakes. If he is driving car at a speed of 54 kmh-1 and the brakes cause a deceleration of 6.0 ms-2 . Find the distance travelled by the car after he sees the need to put the brakes.

10. A ball thrown vertically upwards with a speed of 19.6 ms-1 from the top of a tower returns to the earth in 6 seconds. Find the height of the tower. (g = 9.8 ms-2)

11. A bullet initially moving with a velocity of 20m/s strikes a target and comes to rest after penetrating a distance of 0.01m in the target. Calculate the retardation produced by the target. 12. A body moving in a straight line at 72kmph undergoes an acceleration of 4m/s2 . Find its speed after 2 seconds.

3. A car a moving at rate of 72km/h and applies brakes which provide a retardation of 5ms-2 .

How much time does the car takes to stop.

How much distance does the car cover before coming to rest?

What would be the stopping distance needed if speed of the car is doubled?

4. A body starts from rest and moves with a uniform acceleration of 5m/s2 for 5s and then it moves with a constant velocity for 4s. Later it slows down and comes to rest in 5s. Draw the velocity time graph for the motion of the body and answer the following questions:
a) What is the maximum velocity attained by the body?

b) What is the distance travelled during this period of acceleration?
c) What is distance travelled when the body was moving with constant velocity?
d) What is the retardation of the body while slowing down?
e) What is the distance travelled by retarding?
f) What is the total distance travelled?

CHEMISTRY

Draw Charts on any one of the following topics: Fractional distillation , Chromatography , Sublimation , Evaporation , Separation funnel , Distillation , Interconversion of states of matter
Read about at least five scientists and their contribution in SCIENCE and write at least 50 words on each scientist.

Biology

Prepare a model to compare plant cell and animal cell using common household items like grains and pulses etc.
Do NCERT questions of Chapter: Cell the fundamental unit of life. [in Biology notebook]
Consider a cell like your school. Each part of the cell (school) has responsibilities that must be done and certain organelles (people) to do them. Identify the functions of the following parts of the cell then identify which person does the same job.
First one is done as an example to follow:
Part of School that has a similar function
1.Cell Membrane(front office)
Function:
Controls what goes in and out of the cell
2.Mitochondria
3.Nucleus
4.Ribosome
5.Cytoplasm
6.Golgi Body
7.Cell Wall (only in plant cell)BIOLOGY

SOCIAL STUDIES

Marks Allocated: 10 marks

Subject Teacher: Mr. Atam Prakash

Email Id: atamunlimited@gmail.com

<u>**Grade IX**</u>
<u>**Social Studies Project**</u>
<u>**(To be forwarded to CBSE as internal assessment)**</u>

The Topic for the project is Disaster Management (Do any one of the following)
a. Earthquake
b. Flood
c. Drought
d. Landslide
e. Cyclone

<u>Guidelines for the project</u>

Collect information from various sources like newspapers, photographs, article from magazine, internet, eye witness, accounts etc., Regarding the event and the problems faced by the disaster victims.

Collect information on immediate response of various government agencies like police, hospitals, district administration etc.

Discuss the role of authorities, Indian-and international agencies (CRY, WHO, UNO) in the rehabilitation process.

In conclusion highlights the mitigation process to include identification of risk zones, community awareness and individual response.

A case study of supplement and build up on the project shall be appreciated.

Criteria for evaluating project work include content accuracy, originality, presentation and creativity.

The project should be hand written. Print outs will not be accepted.

All the photographs should be labeled and acknowledged.

<u>**Project should be developed and presented in this order**</u>

Cover page showing project title ,schools name, students name, class and section and academic session(year)

List of contents with page number (approx...15 pages)

Acknowledgements: Acknowledging institution, offices and libraries visited and people who
  have helped.

Project Overview: Purpose ,aim, methodology and experience while doing the project

Chapters with relevant headings.

Summary and **conclusions** based on findings.

Bibliography should have the title, pages referred, author, publisher ,year of publication and if a website, the name of the website with a specific link which have been used.

Teachers evaluation report

NOTE: *Only eco friendly material to be used*
Total marks allotted for the project are **10**, which includes theory as well as viva or written test for content assimilation.

PROJECT EVALUATION PR0FORMA

The pro-forma should be attached on the last page of the project.

School's Name Address Student's Name Roll. No

Class

Section

Teacher Assessment

1. Content accuracy and originality

2. Presentation and creativity

3. Process of project competition

4. Viva –voce

5. Overall remarks:

6. Teacher signature:

Date:

7. School stamp:

Marks Allocated: 10 marks

Subject Teacher: Ms. Mubishara

Email Id: stcs.itinstructor@gmail.com

Topic: Communication Skills

1. What do you Mean Communication? Explain its Features?
2. List the Barriers to effective Communication? Explain any three?
3. What are the advantage and limitation of oral communication? Explain with Examples?
4. Differentiate the Following?
    A. Oral communication vs. written Communication?
    B. Verbal vs. Non verbal Communication?
5. Explain Significance of Visual Communication?

6. **Activity Based Question**.....
    A. Draw Diagram of Communication Process?
    B. Make a PPT Presentation on some common body language errors that one should avoid while communicating?

    Or

    Draw Diagram of 7c's of communication.

    C. Make a chart on Part of Speech? Explain with Diagram?

Holiday Activity Chart or Model or ppt

Slots	Projects
I (I TO 10)	Prepare a chart or Model or PPT ON Communication cycle and its various Elements
II(10 TO 20)	Prepare a chart or Model or PPT which shows all three methods of Communication.
III (20-30)	Prepare a chart or Model or PPT which shows Barriers to effective communication.
IV(30-40)	Prepare a chart or Model or PPT on Some Common body Language errors that one should avoid while Communicati

ਪੰਜਾਬੀ

Marks Allocated: 10 marks

Subject Teacher: Ms. Ravinder Kaur

Email Id: ravinderkaur1555@gmail.com

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PUNJABI

1. ਕਰਵਾਏ ਗਏ ਪਾਠਕ੍ਰਮ ਦੀ ਚੰਗੀ ਤਰ੍ਹਾਂ ਦੁਹਰਾਈ ਕਰੋ।

2. ਪੰਜ ਕਾਵਿ-ਟੁਕੜੀਆਂ ਕਿਸੇ ਵੀ ਪੁਸਤਕ ਵਿੱਚੋਂ ਹੱਲ ਕਰਕੇ ਕਾਪੀ ਤੇ ਲਿਖੋ।

3. ਹੇਠ ਲਿਖੇ ਵਿਸ਼ਿਆਂ ਬਾਰੇ ਚਿੱਤਰ ਸਹਿਤ ਜਾਣਕਾਰੀ ਦਿਓ:

    1) ਸਵੱਛ ਭਾਰਤ ਅਭਿਆਨ   2) ਚੋਣਾਂ ਦਾ ਦ੍ਰਿਸ਼   3) ਨਸ਼ੇ ਛੱਡੋ ਕੋਹੜੂ ਵੱਢੋ   4) ਹਵਾ ਪ੍ਰਦੂਸ਼ਣ

Have a great

Summer

Vacation!