
Mukand
HOLIDAYS HOMEWORK
Theme:
FUEL THE FUTURE
CLASS--6
SESSION: 2025-2026
Oh wonderful nature!
I wonder how you are so beautiful,
with green trees,
and buzzing bees.
The grass is so green,
and everything so clean.
The wandering butterflies,
makes my thoughts fly.
The waterfalls are so cool,
just like a swimming pool.
I love nature,
that is so tall in stature!

Dear Enthusiastic Dipsite

Summer Vacation is a time for fun and frolic, going out, exploring new places, basking the sun, playing and much more. Summer is a time to relax, be productive and to get ahead. As important as it is to rest and sleep, it is also important to continue to learn. To enhance your learning, we have planned activities to keep your skills sharp and concepts clear. Optimize your time, use your energy, and give a vent to your creativity. It will surely enhance your learning process.

Relax, enjoy, have lots of fun and come back to school refreshed.

POINTS TO REMEMBER

1. Read books, fables or comics. Surf the imaginative world and go on a fantasy tour.
2. Run, exercise, sweat, cycle! Channelize energy, build team spirit, enjoy sports and games.
3. Enhance communication skill by conversing in English with family and friends.
4. Watch Discovery channel, Animals Planet, etc. to enhance your knowledge.
5. Explore your artistic skills and express through dance, yoga or swimming.
6. Drink lots of water and juices to fight the scorching heat of the summers.
7. Wear sunglasses and caps while you are out.
8. Observe and feel the beauty of nature with an early morning walk.
9. Limit your screen time and engage in activities, play board games and solve puzzles.

Have fun! Have a great vacation time!

Enjoy

Name: ..... Class: ..... Date: ..... / ..... / .....

All about me

Hi!

My name is _____. I come from _____. I live in _____. I am _____ years old. I have a _____. Her name is _____, and she is _____ years old.

My favourite food is _____. I also like to eat _____ and _____, but I don't like _____ and I never eat _____.

My favourite drink is _____. I also like to drink _____ and _____. I don't like _____.

My favourite TV show is _____.

My ideal is _____.

My favourite colour is _____. I also like _____ colour. I never wear _____.

My favourite toy is _____. I also like to play with _____ and _____, but I don't like _____.

My favourite season is _____. During _____ I go _____ and I can play _____. I also like _____, but I don't like _____.

my photo here

Name: _____

5 THINGS THAT I LIKE ABOUT MYSELF.

1 _____

2 _____

3 _____

4 _____

5 _____

Name: _____ Date: _____

Any Day's REFLECTION

Today is:

How I feel about today:

My act of kindness:

Reason for my rating

Something new I learned today:

ENGLISH EDGE (page 4)

Write a self-composed poem on an A4 sheet and beautify it with a related picture. Choose the topic from the following: My mother, Go green, friendship, My School, My parents, My Grandmother or Park.

NOTE: **All the students are requested to do Above pages. (English Edge 1 to 4)**

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ROLL NO. : 1 to 5

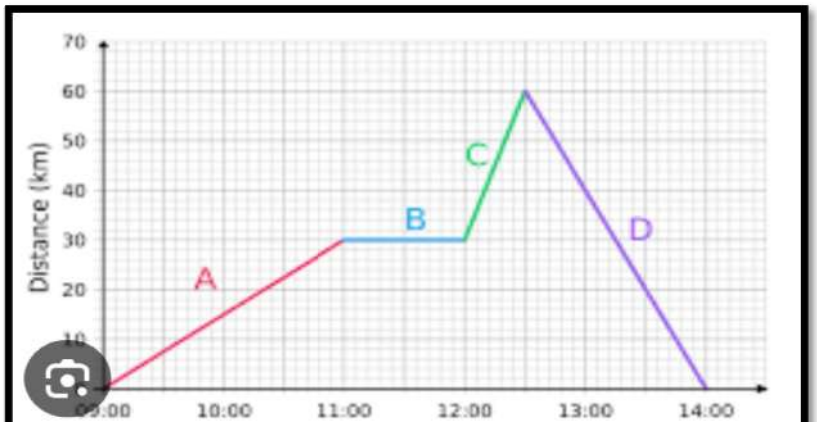
VIRASAT HINDI:

1.शहरी क्षेत्रों में भीड़भाड़ और प्रदूषण की समस्याओं को कम करने में परिवहन नवाचार कैसे मदद कर सकते हैं? अपनी सोच के अनुसार कुछ उदाहरण A4 शीट पर लिखें |

NINJA MATHS:

Do these questions on assignment sheet.

1. A car travels on E40 highway , passing mile markers that increase by 50 each
2. time : 50, 100, 150, 200 . What next three terms comes in the pattern ?
3. A driver needs to stop at 5 check points , along a road to ensure safety and prevention accidents. If each checkpoint has 4 safety inspectors. How many safety inspectors are there in total ?
4. A truck requires 108 litres of diesel for covering a distance of 594 km. How much diesel will be required by truck to cover a distance of 1650 km ?
5. A car travels 30 km in first 2 hours and then travels 45 km in next 3hours. What is the car's average speed for the entire journey?



SCIENCE PIONEERS: (for class 6A)

- **Working model of Futuristic Transportation :** Futuristic transportation models include autonomous vehicles, flying taxis, hyperloops, and other innovative solutions that promise to revolutionize how people and goods are transported.

LINK: https://youtu.be/H_qLhlfMrEE?si=HTEpY2-WHti2CyMO

Futuristic Transportation

1. Introduction What is transportation?
2. What is Futuristic Transportation?
3. Features and Technology
4. Benefits
5. Challenges and Possibilities
6. Conclusion

SOCIAL SCIENCE DYNAMICS:

1. **Make a model on "Smart Eco City – Future of Transport" (for class 6B)**

Build a model of a futuristic city that uses eco-friendly and innovative Transportation systems. This integrates concepts like sustainability, clean energy, and urban planning.

ROLL NO. : 6 to 10

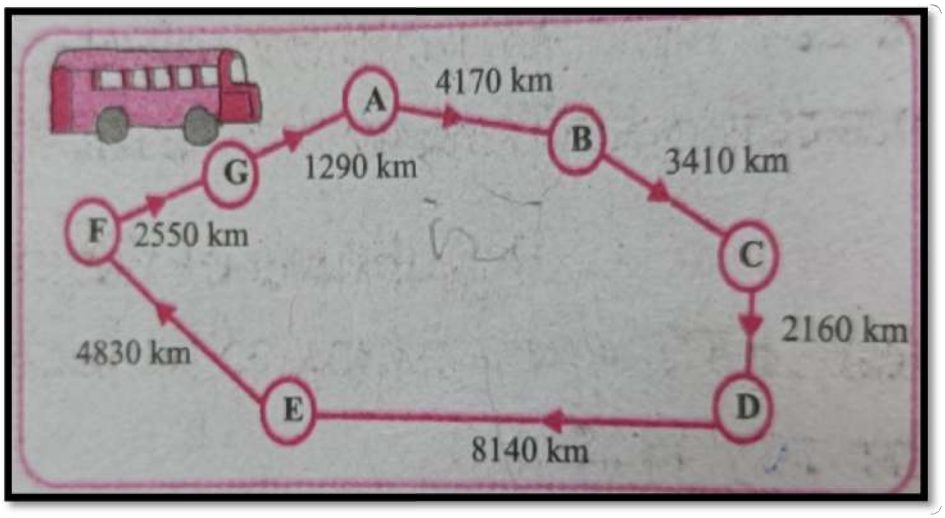
VIRASAT HINDI:

"भविष्य का परिवहन" विषय पर एक छोटा पोस्टर या इन्फोग्राफिक डिज़ाइन करें। इसमें कम से कम तीन नवाचारों को दर्शाया गया है **A4** शीट पर लिखें।

NINJA MATHS:

Do these questions on assignment sheet.

1. Distance from point A by Hamid and Akhtar in an hour are 9 km and 12 km. Find the ratio of speed of Hamid to the speed of Akhtar .
2. A smart parking system has parallel parking lines marked on the ground with perpendicular lines dividing each parking space. If two adjacent parking space have an angle of 90 degree between the parallel and perpendicular lines . What type of angle is this ?
3. A futuristic pod travels on or a track shaped like a rectangle with a length of 500 metres and a width of 200 metres . What is the perimeter of the track ?
4. A bus started its journey and reached different places with a speed of 60 km/ hr . The journey is as shown:



a) Find the total distance covered by bus from A to D
b) Find the total distance covered by bus, if it starts from A and returns back to A.
c) Find the difference of distance from C to D and D to E.
d) Find the time taken by bus to reach A to B.

SCIENCE PIONEERS:

Working model of traffic light alert system :A working model of a traffic light alert system, involves a combination of sensors, relays, and a blue LED to indicate traffic congestion. IR sensors detect the presence of vehicles, and when all three are triggered, the blue LED illuminates, signalling that the road is congested

Link: https://youtu.be/hm5UyETFfRs?feature=shared

1. Introduction What is traffic alert system?
2. How does it works?
3. Features and Technology
4. Benefits
5. Challenges and Possibilities
6. Conclusion

SOCIAL SCIENCE DYNAMICS:

Make a chart on timeline of 5 major innovations in transport from ancient times to the present.

(E.g., wheel or animal-drawn carts).One medieval mode (e.g., sailing ships).One industrial-era mode (e.g., steam engine).Two modern innovation. Decorate your timeline with small drawings or images.

ROLL NO. : 11 to 15

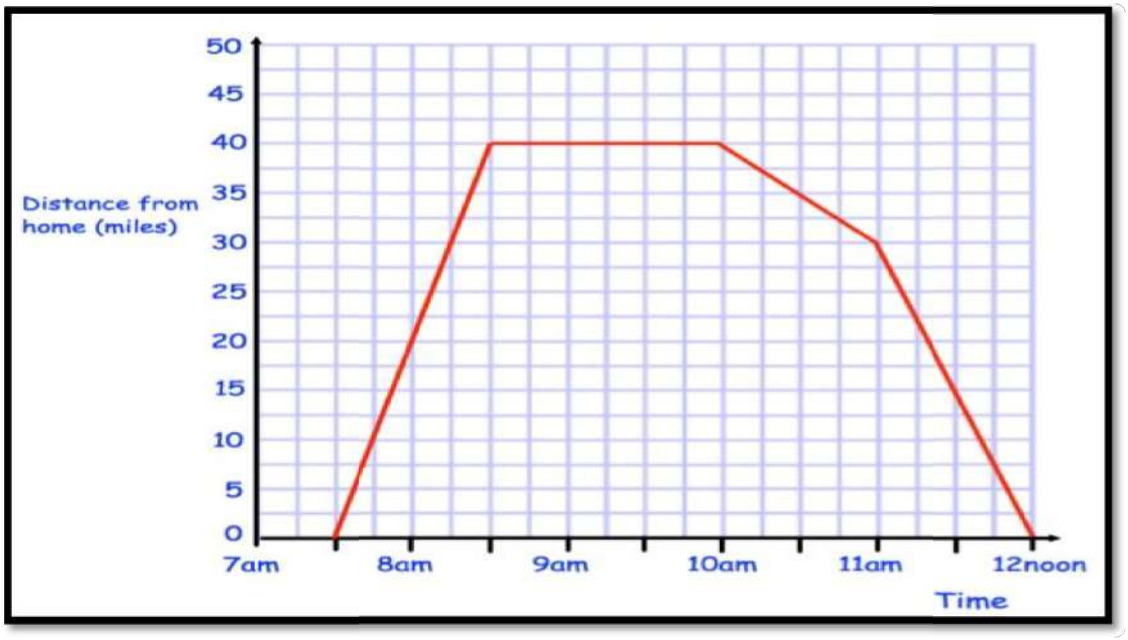
VIRASAT HINDI:

भारत में इलेक्ट्रिक वाहनों को अपनाने में सरकार द्वारा क्या मुख्य प्रोत्साहन दिए जा रहे हैं? (जैसे सब्सिडी, टैक्स लाभ आदि) विस्तार पूर्वक चित्र सहित अलग अलग A4 शीट पर लिखें।

NINJA MATHS:

Do these questions on assignment sheet.

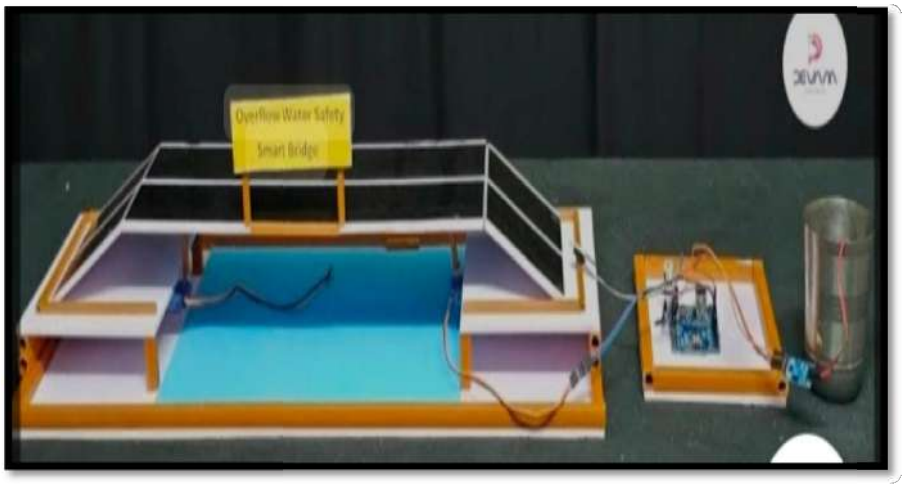
1. A flood water detection system uses vertical sensor to measure water level, forming an angle of 45 degree with water surface. What type of angle is the angle formed between sensor and water surface.
2. A traffic light project has 15 red lights, 12 yellow lights and 18 green lights. Find ratio of :
   a) Green lights to red lights.
   b) Yellow lights to the total number of lights
3. A smart bridge has 12 sensors installed along its length to monitor traffic and structural health . If each sensor costs Rs. 800 to install . What is the total cost of installing the sensors ?
4. Emma travelled to her Grandmother's house and back. The distance – time graph shows information about her journey.
   A) What time did Emma begin her journey.
   B) How long did Emma stays at her grandmother's house.
   C) How did Emma travel in total ?



SCIENCE PIONEERS:

Working model of Smart Bridge : Smart bridge with automatic height increase during flooding uses sensors to detect rising water levels and a system to raise the bridge accordingly, preventing damage and ensuring continued traffic flow.

Link: https://youtu.be/2-zsQix2Ay0?si=kSql5rvoOs_wVQRF



1. Introduction
2. What are Smart Bridges?
3. How Smart Bridges Work
4. Key Features
5. Benefits
6. Conclusion

SOCIAL SCIENCE DYNAMICS:

- **Create a scrapbook showcasing 6 major transport innovations across different time periods.**
- Pages to Include (1 page per innovation): Ancient Era (e.g., wheel or chariot).Medieval Era (e.g., sailing ships).Industrial Era (e.g., steam locomotive).Early 20th Century (e.g., gasoline car).Modern Era (e.g., electric train).Future Innovation. For Each Page: Paste/draw a picture of the transport mode. Write 3-4 sentences about when it was invented, how it worked, and its impact on society.
- **Example :Steam Locomotive (Early 1800s): Invented by George Stephenson, it ran on coal and steam power. It connected cities and boosted trade. Fun Fact: The first passenger train was called the Rocket**

ROLL NO. : 16 to 20

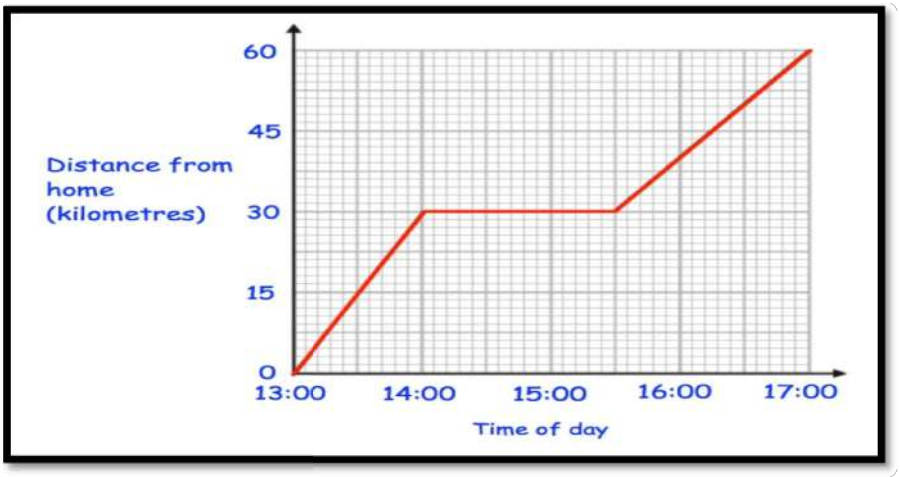
VIRASAT HINDI:

अपनी यात्रा के लिए तीन ऐसे नवाचारों का उल्लेख करें जो आपकी यात्रा को तेज, अधिक आरामदायक, या अधिक पर्यावरण-अनुकूल बनाएंगे। प्रत्येक नवाचार के बारे में संक्षेप में a4 शीट पर लिखें कर बताएं।
(जैसे - उड़ने वाली कारें, हाई-स्पीड पॉड, सेल्फ-ड्राइविंग बसें, सौर ऊर्जा से चलने वाली नावें आदि)

NINJA MATHS:

Do these questions on assignment sheet.

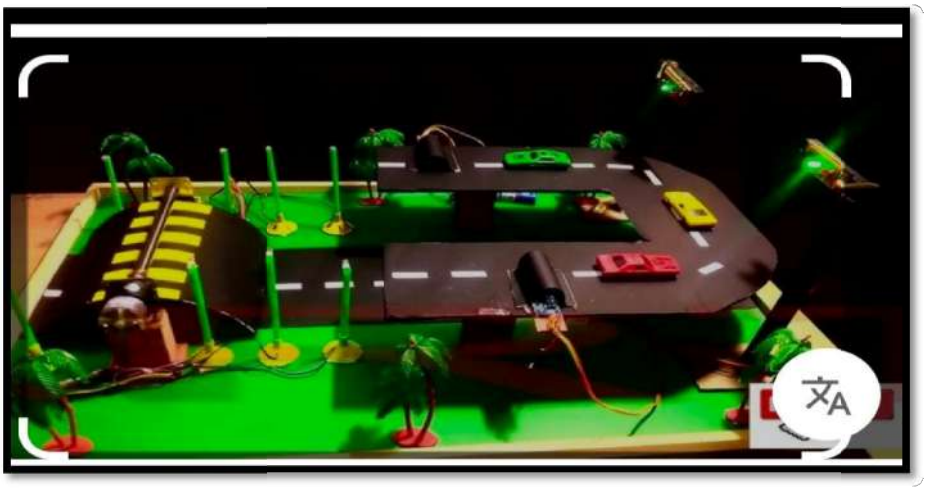
1. A rectangular park has automatic street lights installed along its perimeter. If the length of the park is 400 m and width is 200 m. What is the total length of the perimeter where street lights are installed?
2. A futuristic pod travels at a speed of 2 x km/hr, where x is a constant . If the pod travels for 5 hours covering a distance of 50 km. What is the value of x ?
3. A truck requires 108 litres of diesel for covering a distance of 594 km. How much diesel will be required by truck to cover a distance of 1650 km ?
4. Ben drove 60 km,from his home to Liverpool. He stopped and visited his friend Tim on the way.
    a) Work out Ben's speed for the first part of his journey.
    b) How long did Ben spend visiting Tim ?
    c) Work out Ben's speed for the last part of his journey.



SCIENCE PIONEERS:

Working model of Road Accident Prevention : Accident prevention road safety models aim to reduce traffic accidents by implementing strategies, technologies, and safety measures to warn drivers, improve road infrastructure, and enhance overall road safety.

Link: https://youtu.be/U58peXFuwtQ?feature=shared



1. Introduction
2. What is an Accident Prevention Model?
3. How the Model Works
4. Key Features
5. Benefits
6. Conclusion

SOCIAL SCIENCE DYNAMICS:

- Make a project on : **A Transport Innovation of the Future** .
- Choose one futuristic transport innovation (e.g., flying cars, hydrogen-powered planes).Write a short project (150-200 words) including:
- What is this innovation? (Describe it in 2-3 sentences.)How does it work? (Explain in simple terms, 3-4 sentences.)
- How will it help the environment or society? (2-3 sentences.)
- Draw a picture or diagram of the innovation .Example: Hyperloop – A hyper loop is a high-speed transport system where pods travel in vacuum tubes. It uses magnetic levitation to move pods at speeds up to 1000 km/h, powered by electricity. It will reduce travel time and use less fuel, helping the environment.

ROLL NO. : 21 to 25

VIRASAT HINDI:

परिवहन में किसी एक नवाचार (जैसे इलेक्ट्रिक वाहन, हाइपरलूप, ड्रोन डिलीवरी, स्मार्ट सड़कें, हाइड्रोजन ईंधन सेल वाहन आदि) का चयन करें जिस पर आप सबसे अधिक उत्सुक हैं।

*** प्रश्न: आपने यह नवाचार क्यों चुना?**

*** प्रश्न: यह नवाचार कैसे काम करता है? (संक्षेप में बताएं)**

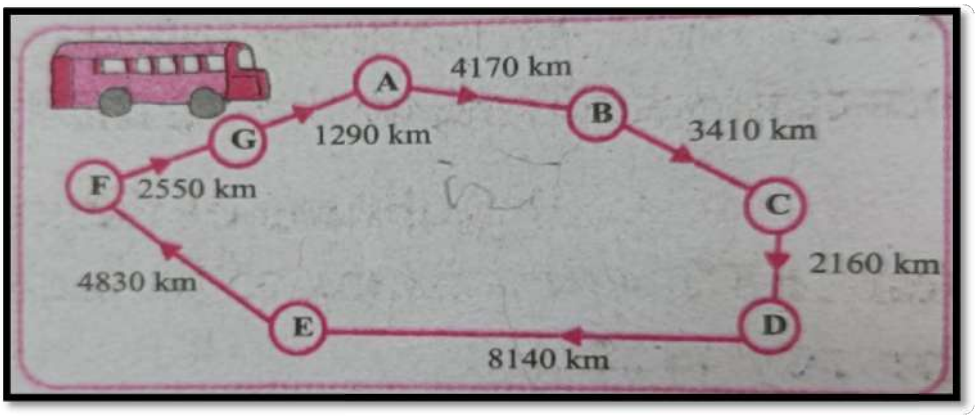
*** प्रश्न: इस नवाचार के पर्यावरण और समाज के लिए क्या लाभ हो सकते हैं? (कम से कम दो) चित्र साहित्य संक्षेपचार्ट पर दर्शाए**

NINJA MATHS

Do these questions on assignment sheet.

1. An E- highway has electric charging points installed at regular intervals. If If 3/5 of the highway's 300 km length has charging points. How many kilometres of the highway have charging points?
2. A traffic light project has 24 lights in total, and 1/3 of them are red lights . How many red lights are there in the project ?
3. Distance travelled from point A by Hamid and Akhtar in an hour are 9 km and 12 km. Find the ratio of speed of Hamid to the speed of Akhtar .
4. A bus started its journey and reached different places with a speed of 60 km/ hr . The journey is as shown:
   a. Find the total distance covered by bus from A to D

   b. Find the total distance covered by bus, if it starts from A and returns back to A.
   c. Find the difference of distance from C to D and D to E.
   d. Find the time taken by bus to reach A to B.



SCIENCE PIONEERS:

Working Model of E-Highway: The **E-highway model** works by integrating electric charging infrastructure into existing highway systems. Electric vehicles (EVs) equipped with compatible technology can charge while driving through dynamic charging systems, such as overhead wires or inductive coils embedded in the road surface.

Link: https://youtu.be/UE2jrE3fgXo?si=3p2Xxvnnth8hVPPe

1. Introduction
2. What is an E-Highway?
3. How It Works
4. Features
5. Benefits
6. Conclusion

SOCIAL SCIENCE DYNAMICS:

- **Make a Poster on – "Drive Green, Live Clean"**
- **Type: Poster & Slogan Design**

What to Do:

- **Create a colourful poster showing a green city with clean vehicles and trees.**
- **Add a strong slogan like:"Fuel the Future, Not the Fire"**
- **"Clean Wheels for a Green World.**

ROLL NO. : 26 to 31

VIRASAT HINDI:

भारत में एक "हरित" परिवहन परियोजना (A "Green" Transport Project in India):

*** कार्य: भारत में वर्तमान में चल रही या प्रस्तावित किसी ऐसी परिवहन परियोजना का पता लगाएं जो पर्यावरण के अनुकूल हो। (उदाहरण के लिए: किसी शहर में इलेक्ट्रिक बस बेड़े का विस्तार, सौर ऊर्जा से चलने वाले रेलवे स्टेशन, या साइकिल शेयरिंग योजना)।**

*** प्रश्न: इस परियोजना का नाम क्या है और यह कहाँ स्थित है?**

*** प्रश्न: यह परियोजना पर्यावरण के लिए कैसे फायदेमंद है?**

*** प्रश्न: क्या आपको लगता है कि इस परियोजना को अन्य शहरों में भी दोहराया जाना चाहिए? क्यों?चित्र साहित्य संक्षेप मे** A4 **शीट पर लिखें|**

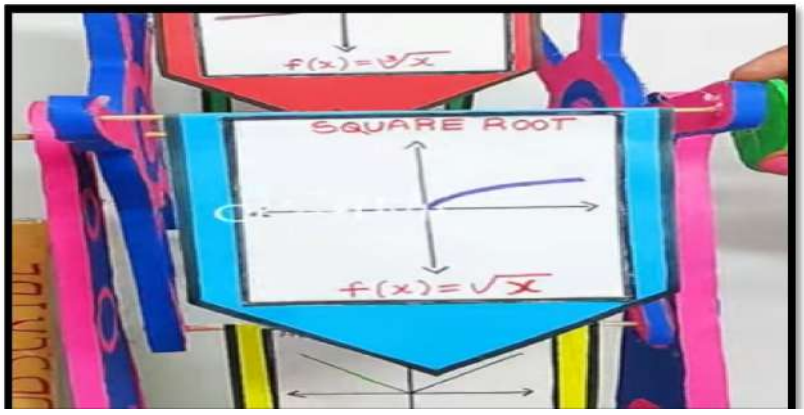
NINJA MATHS :

Working model of Geometric Park (for roll no 26,27,28)

Link : https://www.instagram.com/reel/DBOlroivjjh/?igsh=MWR0ZnY4ejY1eWZsYg==

Working model representing Types of angles and Lines : Roll no (29,30,31)

Link: https://youtu.be/T7Dgt28vO6U?si=bVtULE_0w4J4FCCf



SCIENCE PIONEERS:

1. Choose a petrol vehicle and an electric vehicle (4-wheeler).
   Research the cost of petrol/electricity, fuel consumption, and emissions for each.
2. Choose several modes of transport (e.g., cars, trains, airplanes, ships, bikes).
   Research their history, how they work, their advantages and disadvantages, and any recent innovations.

SOCIAL SCIENVE DYNAMICS:

Make a chart showing how transport differs in mountains, deserts, plains, and coastal areas of India. Add pictures or sketches of vehicles used in each region.

ROLL NO. : 32 to 38

HINDI VIRASAT

एक ऐसी परिवहन गाड़ी का स्केच (ड्राइंग) या डिजिटल डिज़ाइन बनाएं जो भविष्य के नवाचारों को दर्शाती हो।

* शामिल करें:
* अपनी गाड़ी का नाम।
* यह किस प्रकार की ऊर्जा का उपयोग करती है।
* इसमें कम से कम दो अनूठी विशेषताएं जो इसे वर्तमान वाहनों से अलग बनाती हैं चार्ट पर दर्शाए ।

NINJA MATHS:

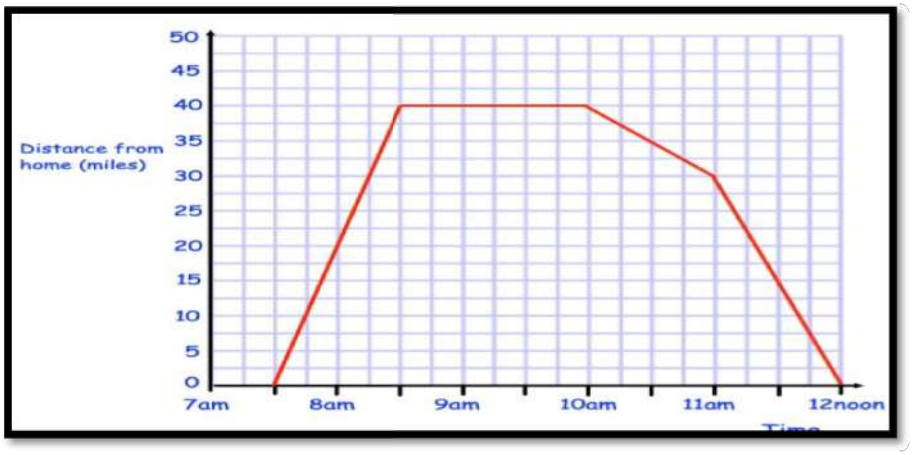
Do these questions on assignment sheet.

1. The traffic lights at three different road crossing change after every 48 seconds, 72 seconds and 108 seconds respectively. If they change simultaneously at 7 a.m. at what time they change simultaneously again .
2. The cost of building an E – highway is given by equation C= 2 x + 500 , where C is the cost in millions and x is the length of the highway in kilometres. If the cost is 700 million. What is length of the highway?

3. Jagadhri, Haryana is experiencing a spike in road accidents . Data has been collected on the number of accidents occurring at different intersections and during different times of the day.
   a) Make a frequency distribution table for the above data.
   b) Show the same on bar graph.
   c) What is the graph between number of accidents at intersection A and B

Intersection	Number of Accidents
A	15
B	22
C	10

4. Emma travelled to her Grandmother's house and back. The distance – time graph shows information about her journey.

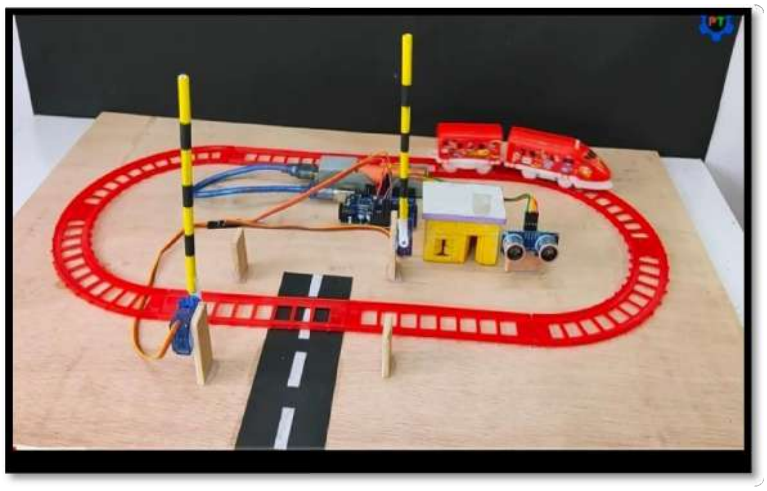


1. What time did Emma begin her journey.
2. How long did Emma stays at her grandmother 's house.
3. How did Emma travel in total ?

SCIENCE PIONEERS:

Working model of Automatic Railway gate : An automatic railway gate project automates the process of closing and opening railway crossing gates when a train approaches or leaves, reducing the risk of accidents and improving traffic flow. It achieves this by using sensors to detect the train, a controller to move the gate.

Link: https://youtu.be/aa035_wkVeQ?si=HbVwu9u0yQQJa2Hn



1. Introduction
2. What is an Automatic Railway Gate?
3. How It Works
4. Benefits
5. Where It Can Be Used
6. Conclusion

SOCIAL SCIENCE DYNAMICS:

- Make a mini project on ”Inventors Who Changed the Way We Move”
- Choose a famous inventor or scientist in transport (like Karl Benz, Elon Musk, or Wright Brothers). Write a short biography with pictures, timelines, and their invention’s impact.

TECH-TREK COMPUTER

1. Roll no 1 to 10

Code a fun space shooter game in scratch..

2. Roll no 11 to 20

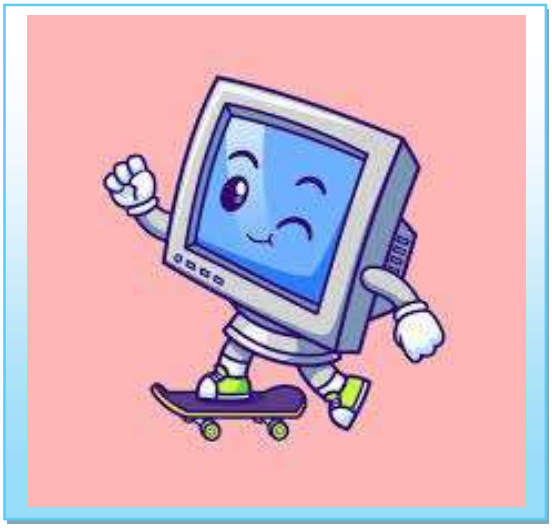
Create Sub Way Surfer in Scratch

3. Roll no 21 to 30

Code Car Stairing simulation in scratch.

4. Roll no 31 to 38

Create a Grow Dragon fly game in scratch



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ARTISTIC VISION

1. Draw and color/ paint a beautiful Madhubani Painting on A3 Size sheet.

2. Best out of waste from empty glass bottles.

EBSB PROJECT

Name of class Incharge Ms._____

Name of project: _____

Name of student: _____

Roll.no.: _____

Class & Section : _____

Signature of class incharge: _____

1st Page

Paste a map of state Telangana

2nd Page

Name of the state:

Symbols of Telangana:

Capital:

Fruit:

Emblem:

No. of Districts:

Mammal :

Language:

Bird:

Chief Minister:

Flower:

Tree:

Area:

Sport:

3rd Page:

Paste the pictures of Heritage sites of Haryana and Telangana.

Also write about the heritage sites of both the states in about 70-80 words.

4th Page:

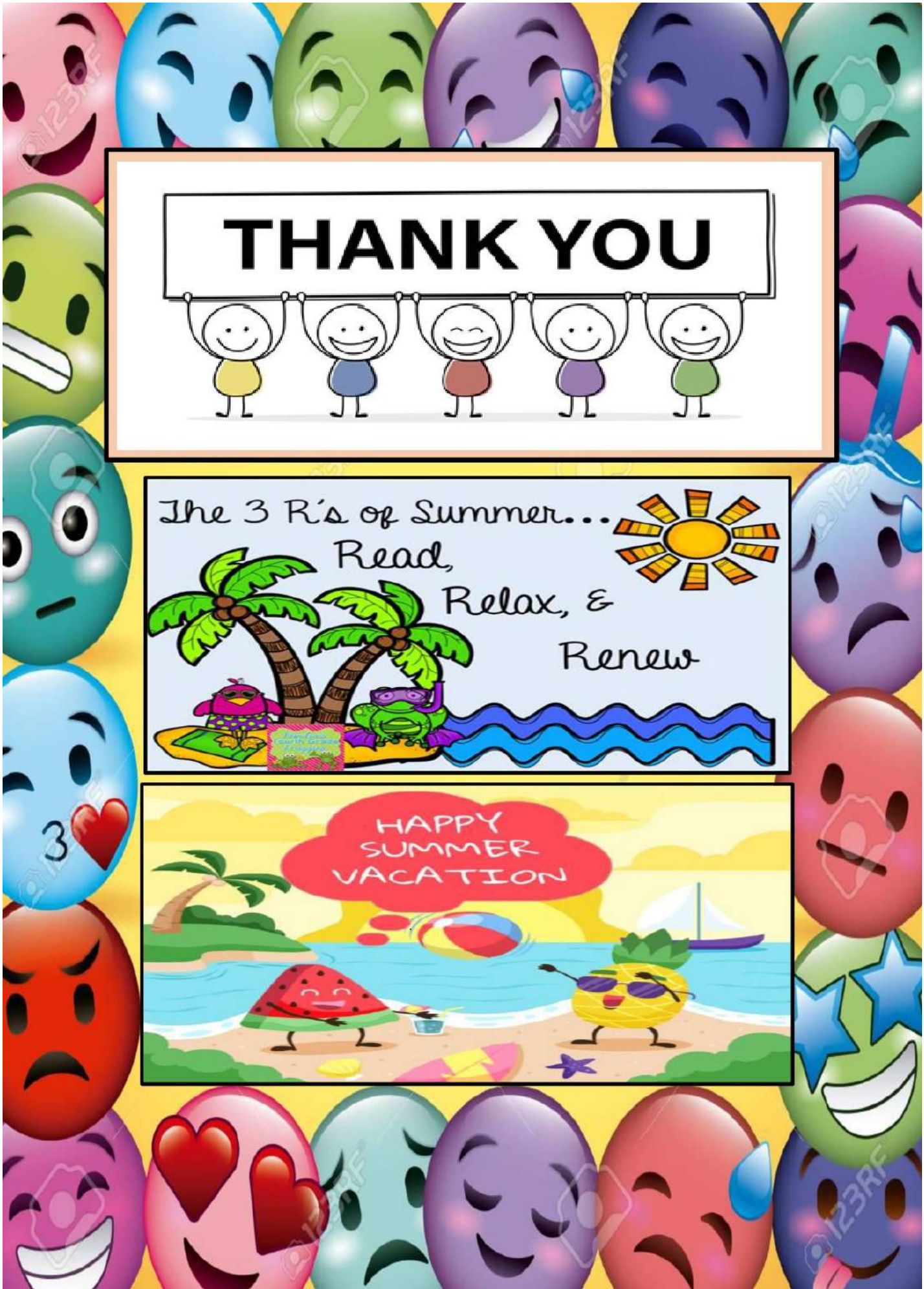
Paste the pictures of Tourist Places of Haryana and Telangana.

5th Page

Paste the pictures of famous cuisines of Haryana and Telangana.

6th Page

Write about the culture and tradition of Haryana and Telangana in about 50-60 words. Also paste the related pictures Haryana and Telangana.


THANK YOU
The 3 R's of Summer...
Read,
Relax, &
Renew
HAPPY SUMMER VACATION