

# DAV CENTENARY PUBLIC SCHOOL

PASCHIM ENCLAVE NEW DELHI-87

## CLASS 9

### HOLIDAY HOMEWORK 2022-23

#### English

Q 1 :- PROJECT

The commander Raja Chari landed along with three astronauts, on May 5, 2022 after spending six months at the International Space Station. Describe Raja Chari's dream, efforts, beginning of his space journey and achievements. Also paste the pictures related to space journey in the scrap file.

Q 2: Imagine you are Raja Chari, the astronaut in news recently. You got an opportunity to stay at the International Space Station for six months. Write a diary page, expressing your feelings and experiences at the Space Station. (word limit 120 to 150 words).

Q 3: Watch any movie on India's freedom fighters or India's struggle for independence with your family. Write its synopsis highlighting- what did you like most, what motivated you, any change in the course of history that you would like to make and why...

Q 4: Enjoy reading the first three chapters of the book- MOMENTS and make mind map based on the stories in your English Notebook.

#### Science

THEME TO BE EXPLORED IN THE PROJECT :

**'AZADI KA AMRUT MAHOTSAV' – 75 YEARS OF INDIAN INDEPENDENCE**

As India is going to complete 75 years of its independence this year, 'AZADI KA AMRUT MAHOTSAV' is a commemoration of 75 years of India's Independence. This Mahotsav is a festival of awakening of the nation; a festival of fulfilling the dream of good governance; and the festival of global peace and development. Like the history of the freedom movement, the journey of 75 years after independence is a reflection of the hard work, innovation, enterprise of ordinary Indians. India is still moving forward by strengthening democracy. India, rich in knowledge and science, is leaving its mark from Mars to the moon.

In your project work given below, you will be exploring and researching the above theme.

The space industry is developing and delivering benefits that tie into our immediate needs and priorities here on earth. For example : Satellite communications.

Students are required to make a project report on "Satellite communication" comprising the following information.

- Basic introduction of satellites.
- Types of satellites
- Basic elements of satellite communication system
- Working principle
- Basic diagram of transmitter and receiver in satellite communication
- Satellite uplink and downlink frequency range.
- application of satellite communication in our day to day life.

**Note : Project report must be supported with pictures.**

## Social Science

- Make a research based project on “Indian space programme” including the aspects listed below for each time period i.e. 1975- 1995, 2001-2021 and the one to be launched in future by ISRO represent it in a tabular form showing name of satellite, Year of launch, vehicle and its type . Also use colorful pictures, to make the topic interesting.
- Name and paste pictures, newspaper clippings of any 4-5 man - made satellites alongwith their purpose.
- Describe how **Mission shakti** has strengthened the Indian.

### **Azadi Ka Amrit Mahotsav**

Prepare PPT on Role of the constitutional maker in making the constitution of India.

## Hindi



### Page -1(Front Page)

परियोजना कार्य शीर्षक (Project Work Title)-: **अंतरिक्ष : एक रहस्य**



शीर्ष पंक्ति(Tag Line): **सलिल शून्य फिर भी रहते हैं, ग्रह स्थिर जिस स्थान पर  
अंतरिक्ष कहते उसको हैं, है रहस्य प्रतिपल जहाँ पर ।**

विद्यार्थी का नाम .....

कक्षा एवं विभाग :.....

- Page -2-Index
- Page -3- अर्थ और जानकारी(चित्र सहित)
- Page -4- अंतरिक्ष में जाने वाले वैज्ञानिक(कोलाज)
- Page -5- अंतरिक्ष से जुड़ी ताज़ा खबरें (चित्र सहित)
- Page -6- अंतरिक्ष यात्री का साक्षात्कार(काल्पनिक) (चित्र सहित)
- Page -7- शीर्षक पृष्ठ-आज़ादी का अमृत महोत्सव
- Page -8 से 10- किसी भी एक स्वतंत्रता सेनानी का परिचय और योगदान
- मूल्यांकन बिंदु - प्रस्तुतीकरण, रचनात्मकता एवं मौलिकता

## Mathematics

As you all know, we are celebrating "AMRIT MAHOTSAV" on the occasion of completing 75 years of Independence. We will be learning about Indian sculptures specifically in our temples/monuments/buildings on commencement of 75 years of Independence of progressive India. We will see how MATHEMATICS does involve its importance in building such heritage legacies. We will learn how squared base of these sculptures gets a hemispherical dome over it or say how rectangular base of temples/monuments/buildings gets octagonal shapes laid over them.

Let's make a model of this. Also write a brief report about the combination of solid shapes in the model made.

### **INTERDISCIPLINARY PROJECT - SPACE**

Mathematics plays a crucial role in the study of space, also called outer space. Designers use mathematics to calculate distance, speed, velocity and astronaut's safety while developing space ships. Astronomers use mathematics to study space like distance between planets, stars, galaxies and more. These space exploration calculations involve use of mathematics.



**Task 1:- (a)** Find the speed at which planets of our solar system revolve around the sun. Write them in scientific notation ( $k \times 10^n$ , where  $1 \leq k \leq 10$  and  $n$  is any integer) in the format given below.

S.No.	Name of the planet	Speed	Scientific Notation	Round Off
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**(b)** Draw the bar graph of the above information. (Take the round off values to draw the bar graph).

**Task 2:-** How are zodiac signs and constellations related. Make a list of zodiac signs of 5 family members /relatives in the following format:-

Relation	Date of birth	Zodiac sign
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Also plot the related zodiac constellations on the cartesian plane on a scale from 0 to 20.

**Note: Do the project on A-4 size pastel sheets.**

### **Sanskrit**

1 'अन्तरिक्षः' इति विषयम् अधिकृत्य एकम् अनुच्छेदं संवादं वा लिखत | चित्र सहितम् ( A4 SIZE इत्यस्य पत्रे )

2 एकां संस्कृतपत्रिका रचयत |

3 स्वतन्त्रभारतस्य अमृतमहोत्सवस्योपरि पी. पी. टी. निर्माणम् |

4 प्रदत्तकार्यप्रपत्राणि कुरुत |

### **Computer**

### ***Information Technology (402)***

- Make a Power Point Presentation in applications of computers in daily life taking inputs from Ch 1 : Introduction to IT-IT es industry.

### ***Artificial Intelligence (417)***

- Create a Interactive story on designing a Smart Home Plan on Google Presentation tool , Microsoft Power Point and Open office impress. The text and pictures on the slide should be shown normally. The links/action buttons should be in bold .The story creator should act as per the instruction and take necessary actions.