



**Bal Bharati**  
PUBLIC SCHOOL  
NAVI MUMBAI

## **SUMMER HOLIDAY HOMEWORK 2023-24**

### **CLASS 5**

#### **THEME: HERITAGE**

**Last day of Submission (All Subjects)** - As per the dates given by subject teachers.

#### **ENGLISH:**

Q. Write about any invaluable heritage of India in 80-100 words. Why do we consider it as the pride of India? Draw or paste pictures.

Name of the Heritage \_\_\_\_\_

We consider it as the pride of India because.....

(Do your work in A4 size sheets)

- Do writing practice daily to improve your handwriting.
- Read story books daily.

#### **MATHS:**

##### **Mathematics and Heritage**

Heritage is the legacy of the past that we inherit and pass on to future generations. There is a relation between heritage and mathematics because mathematics is part of our cultural heritage. Many civilizations have contributed to the development of mathematics throughout history, such as ancient Egyptians, Babylonians, Greeks, Chinese, Indians, Arabs, and Europeans.

Mathematics can help us preserve and study our heritage. For example, mathematics can be used to date historical artifacts, analyse ancient texts, reconstruct ancient buildings, and create digital models of cultural sites.

Mathematics can also inspire us to create new forms of heritage. For example, mathematics can be used to design artistic patterns, shapes, and structures, or to compose music, poetry, and literature.

One such heritage is the Konark temple of Orissa. It is one of the seven wonders of India. Gather information on this temple and answer the questions given below.

### **Mathematics in Sun Temple**

The Konark temple of Odisha, was built like a chariot of Sun god. There are a total of 12 pairs of wheels and the main shrine is shaped like a chariot and the wheels represent TIME. It became a UNESCO World Heritage Site in the year\_\_\_\_\_.

‘Konark’ is a combination of two Sanskrit words, ‘Kona’ and ‘Arka’.

**Meaning of ‘Kona’:** \_\_\_\_\_. **Meaning of ‘Arka’:** \_\_\_\_\_.

**The Temple compound measures** \_\_\_\_\_ **meters by** \_\_\_\_\_ **meters.**



**Q1) Which mathematical concepts were used in the construction of the Konark temple?**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**Q2) Write two structures of Konark temple which shows symmetry?**

1. \_\_\_\_\_ 2. \_\_\_\_\_

**Q3) Sun Temple of Konark (Sundial) is printed as motif on which Indian Currency after Jan 5, 2018?**

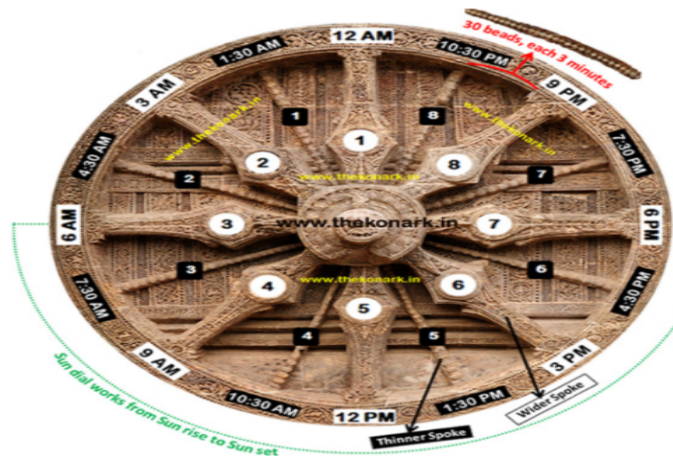
\_\_\_\_\_

**Q4) The temple itself signifies time.**

a) The 7 horses represent the \_\_\_\_\_ days of a week.

b) 12 pairs of wheels represent the \_\_\_\_\_ months of a year.

**Q5) Sundials help in calculating time to a minute. Observe the Sundial and fill in the blanks.**



a) The diameter of the wheel is \_\_\_\_\_.

b) 24 wheels of the chariot represent the \_\_\_\_\_ hours of a day.

c) Number of major/ thicker spokes in the wheel are \_\_\_\_\_.

d) Number of minor / thinner spokes in the wheel are \_\_\_\_\_.

e) The major spokes divide 24 hours into eight equal parts which means the time between two major spokes is \_\_\_\_\_.

f) Each thinner spoke runs exactly in the middle of two major spokes. So, the time between a major and a minor spoke is \_\_\_\_\_ hours.

g) There are \_\_\_\_\_ beads between one wider spoke and a minor spoke and each bead represents \_\_\_\_\_ minutes.

h) The sundial shows time in anti-clockwise and the top centre wider spoke represents the time \_\_\_\_\_.

### **SCIENCE:**

Make a beautiful creative album on Heritage Monuments in India. Collect information and stick pictures of any 5 famous Heritage Monument in India of your choice on A-4 size coloured chart paper. Name the rocks that have been used to make these monuments. The period in which it was constructed.

### **HINDI:**

किन्ही पांच भारतीय ऐतिहासिक इमारतों के चित्र बनाइए या चिपकाइए और उनके नाम हिंदी में लिखिए तथा किसी एक इमारत का वर्णन कीजिए।

नोट - यह कार्य अपनी हिंदी की नोट बुक में कीजिए।

### **MARATHI**

कोणत्याही दोन प्राचीन भारतीय मंदिरांची माहिती मिळवा व लिहा आणि चित्रे चिटकवा.

सूचना: ( दिलेले कार्य मराठीच्या वहीत पूर्ण करणे.)

### **SST**

Make a stick puppet of any historical or religious hero. (ANY 5).

Paste them in an A4 size coloured chart paper and write a few lines about them.

Make a creative file folder.

## **SANSKRIT**

कोऽपि पञ्च प्राचीन देवालयानां नामानि (सचित्र ) लिखित्वा तेषां - वर्ण विच्छेदं कुरुत ।

(Use A4 size sheet)

## **COMPUTER**

In MS word create a notice or brochure on any 2 of the following Heritage sites. Use maximum features of Word.

Topics: (Any 2)

- a) Ellora caves, Maharashtra
- b) Agra Fort, UP
- c) Sun Temple, Odisha
- d) Great living Chola temples, Tamil Nadu
- e) Khajuraho, MP

The notice/brochure should include following:

- 1) Heading: Name of the Heritage site
- 2) A short write up not more than 50 words
- 3) Insert only one picture related to the theme.
- 4) Use all formatting options and make the document colorful and presentable.
- 5) The document should not exceed more than 1 Page.
- 6) Once done Save the file with your name, class and section.
- 7) Upload the Word file or PDF file in the following link.
- 8) Do not click picture of the document. Please upload the file in the below link:

[https://docs.google.com/forms/d/e/1FAIpQLSeHGebex00\\_MaWAp8JN7J7NSdvnMHclZ7xFg0if29UP92Z7sQ/viewform](https://docs.google.com/forms/d/e/1FAIpQLSeHGebex00_MaWAp8JN7J7NSdvnMHclZ7xFg0if29UP92Z7sQ/viewform)

## **ART**

- ❖ Take any Indian Monument and collage it with any available material on A4 Size Paper.
- ❖ Eg : Quilling, bits of colourful paper, paper ball, any waste material, cotton, cloth, wooden sticks , pulses etc.
- ❖ Example:



**Happy Holidays!!!**

-sd-

Ms. Kalpana Dwivedi

Principal, BBPS Navi Mumbai