



KhaitanPublic School, Sahibabad
Winter Holiday HomeWork -2020-21
Class-IX

HINDI

1-**ASL-परियोजना कार्य**—क- कवि व लेखक पर किया गया परियोजना कार्य का प्रिंट(print) निकाले। आवश्यक चित्र लगाकर रचनात्मकता व क्रियात्मकता से फाइल बनाए ।

ख- परियोजना कार्य पर आधारित 10 प्रश्नों का निर्माण कीजिए ।(A-4 Sheet/हिंदी पुस्तिका)

ग-परियोजना कार्य (PPT-MS TEAM) पर upload करें ।

2-**आत्मकथा अथवा रोमांचक घटना**- अपने परिवार के किसी सदस्य के विषय पर अपने विचार लिखिए । अथवा किसी रोमांचक घटना का वर्णन अपने शब्दों में कीजिए ।(हिंदी पुस्तिका)

3- **ASL-वाचन कौशल** - दिए गए विषय में से किसी एक विषय पर अपने विचार प्रस्तुत कीजिए -

क- नर हो न निराश करो मन को

ख- जैसी संगति बैठीए तैसोई फल होए

ग- नारी की दोहरी भूमिका

घ- आरक्षण -कितना उचित कितना अनुचित

ड- अनुशासन का महत्त्व

निर्देश --1-नाम,परिचय व विषय से प्रस्तुति आरंभ करें।

□□□□□□□□

□□□□ □□□□□□ □□□□ □ □□□□□ □□□□ □□□□ □□□□□□ □□□□

□□□ □□ □□□□□□□□ □□□□□ □□□□ □□ □□□□□□□□ □□-

□□□□□□□□ □□□□□ - (□□□□ □□□□□)

1. □□□□ □□ 10 □□□□□□□□□□ □□ PPT □□□□□□ □ □□□□□ □□ □□□□□□|

FRENCH

1. Vous voulez vendre votre voiture à cars 24. Faites une publicité. (do it on A3 sheet)
2. Decrivez une region française. (It may be a power point presentation or an illustrated file)

SOCIAL SCIENCE

Compare the election procedure of India and US with reference to the following points:

1. Division of constituencies
2. Nature of executive (Nominal or real)
3. Criteria to stand as candidate
4. Election campaign in both countries
5. Acceptance of result

SCIENCE

Physics

- Q1. Which force governs the motion of the moon around the Earth? Explain it.
- Q2. The gravitational force between two objects is 100 N. How should the distance between these objects be changed so that the force between them becomes 50 N?
- Q3 (a) Differentiate between mass and weight.
- (b) Is the value of 'g' same everywhere on Earth? Reason out.
- (c) How does the gravitational force between two objects change if distance between them is tripled?
- Q4. Explain how weight of an object on moon is only 1/6th of the weight of the object on earth.
- Q5. Differentiate between 'g' & 'G'. Establish relation between the two. How do you use this relation to calculate the value of 'g'?
- Q6. Calculate the greatest and the least pressure exerted by a metal block of size 20 cm × 8 cm × 5 cm and having a mass of 5 kg.
- Q7. Show that the mechanical energy of a freely falling object from a height 'h' is conserved.
- Q8. Can any object have mechanical energy even if its momentum is zero? Explain.
- Q9. Can any object have momentum if its mechanical energy is zero? Explain.
- Q10. Calculate the electricity bill amount for a month of 31 days, if the following devices are used as specified :
- (a) 3 bulbs of 40 W for 6 hours.
- (b) 4 tubelights of 50 W for 8 hours,
- (c) A TV of 120 W for 6 hours.
- Given the rate of electricity is Rs 2.50 per unit.

BIOLOGY

Q1. Prepare a chart to compare plant cell and animal cell using common household items like grains and pulses etc.

Q2. Enumerate any 5 diseases and write their causes with their means of spread.

Q3. Justify the statement -prevention is better than cure.

Q4. Draw diagrams of all the types of permanent plant tissues.

Q5. Complete the experiment no. 5,6 in your practical file.

CHEMISTRY

1. Write the chemical formula of: (a) Sodium oxide (b) calcium chloride (c) aluminium oxide

(d) magnesium hydroxide (e) sodium carbonate

2. Find the mass of: (a) .2 moles of oxygen gas (b) 1.5 moles of water (c) 3 moles of neon (d) 0.5 moles of sodium (e) 2 moles of nitrogen element

3. Find the molecular mass of:

(a) H_2S (b) HCl (c) NH_3 (d) Cl_2 (e) CH_3COOH (f) CH_3CHO

4. How many moles are there in 200 g of Na?

5. Calculate the mass of 1 atom of nitrogen?

B: WRITE THE EXPERIMENT 4 & 14 IN YOUR CHEMISTRY PRACTICAL FILE.

C: REPRESENT THE ATOMIC STRUCTURE OF FOLLOWING ELEMENTS BY THE HELP OF KIDNEY BEANS/ PULSES/OR ANY OTHER CREATIVE WAYS

Sodium, Phosphorus, Calcium, Argon and Sulphur

IT

Make a PPT on any of the following topics:

- a) Cyber Theft
- b) Computer Networks
- c) Data Science

MATHS

GENERAL INSTRUCTIONS:

- a) This HHW consists two tasks.
- b) Task-1 includes worksheet of Circles. A child has to upload the solution of this worksheet on one note under section **Maths HHW**.
- c) Task-2 consist 5 assignments which will be shared on **Khan Academy platform**.
- d) Above 5 assignments will cover chapters- **Quadrilaterals and Circles**.
- e) Both the tasks will cover 20 marks.

TASK-1 (WORKSHEET)

Q.1 The radius of a circle is 13cm and the length of one of its chord is 10cm. Find the distance of the chord from the centre.

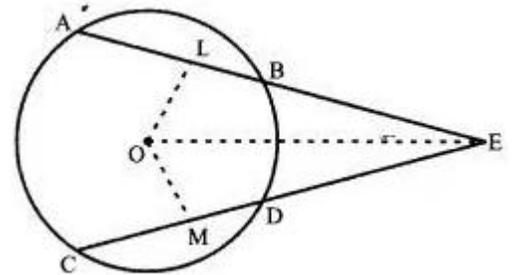
Q.2 Find the length of the chord which is at a distance of 5cm from the centre of a circle of radius 13cm.

Q.3 O is the centre of a circle of radius 5cm. Two chord AB and CD are drawn to one side, if $OP \perp AB$, $OQ \perp CD$, $AB \parallel CD$, $AB = 6\text{cm}$ and $CD = 8\text{cm}$. Determine PQ.

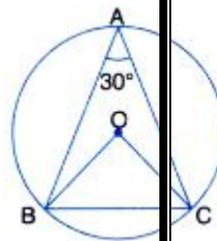
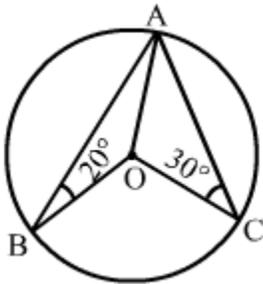
Q.4 O is the centre of a circle of radius 5cm. Two chord AB and CD are drawn to opposite side, if $OP \perp AB$, $OQ \perp CD$, $AB \parallel CD$, $AB = 6\text{cm}$ and $CD = 8\text{cm}$. Determine PQ.

Q.5 AB and CD are two parallel chords of a circle such that $AB = 10\text{cm}$ and $CD = 24\text{cm}$. If the chords are on the opposite sides of the centre and the distance between them is 17cm, find the radius of the circle.

Q.6 Two equal chords AB and CD of a circle with centre O, when produced meet at a point E as shown in figure. Prove that $BE = DE$ and $AE = CE$.

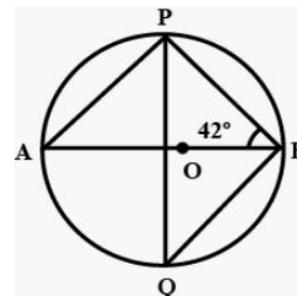


Q.7 In figure calculate the measure of $\angle AOC$ and $\angle BOC$.

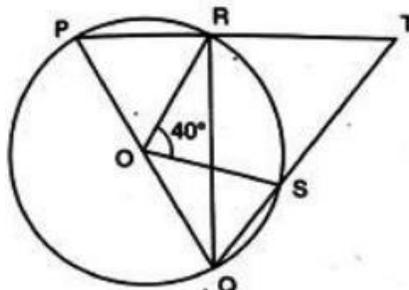


Q.8 In figure ABC is a triangle in which $\angle BAC = 30^\circ$. Show that BC is the radius of the circumcircle of ΔABC , whose centre is O.

Q.9 In figure find $\angle PQB$ where O is the centre of the circle.



Q.10 In figure O is the centre of a circle and PQ is a diameter. If $\angle ROS = 40^\circ$ find $\angle RTS$.



TASK-2 (KHAN ACADEMY ASSIGNMENT)

- ❖ This task will consist 5 Assignments 3 based on Circles and 2 based on Quadrilaterals.
- ❖ Child has to do all these 5 assignments on *Khan Academy platform only*.
- ❖ Assignment-1 will check your *Circles vocabulary* which will consist 4 questions.
- ❖ Assignment-2 will check knowledge of *Inscribed angles* which will consist 4 questions.
- ❖ Assignment-3 will consist a *Quiz* which consist 5 questions.
- ❖ Assignment-4 will check knowledge about *Quadrilateral types* will consist 4 questions.
- ❖ Assignment-5 will consist a *Test* of quadrilaterals which consist 9 questions.

ENGLISH

Assignment 1: (MANDATORY FOR ALL)

CREATE A TRAVEL BROCHURE IN A PPT FOR THE STATES OF ARUNACHAL PRADESH AND MEGHALAYA.

1. ONLY 5-6 SLIDES

2. INCLUDE PRECISE INFORMATION ABOUT THE STATES' HISTORY, FOOD, CULTURE, LANGUAGES, TRIBES, ETC.

3. ADD INFORMATION ABOUT TOURIST PLACES, NATURE EXCURSIONS, BEST TIME TO TRAVEL, PLACES FOR SHOPPING AND EATING, ETC.

4. CREATE TRAVEL PACKAGES, INCLUDE PRICING, MODE OF TRAVEL, NO. OF DAYS AND NIGHTS, ETC.

5. INCLUDE PICTURES AND CREATIVE ILLUSTRATIONS.

Assignment 2: Grammar

Subject- verb Agreement

Use the singular or the plural form of the verbs given in brackets to fill in the blanks in the following sentences.

1. Twenty miles _____ (be) a long distance.
2. The police _____ (pay) a lot of attention to juvenile delinquency.
3. Fifth pounds of potatoes _____ (be) too heavy for one servant to carry.
4. Ten minutes _____ (seem) to be a long time to wait.
5. Two thousand dollars _____ (be) an unreasonable price for that second-hand lorry.
6. None of this meat _____ (be) fresh. I'm not going to buy any from this shop.
7. It _____ (be) these boys who _____ (have) made so many mistakes.
8. The rich and the poor _____ (be) equal in the eyes of the law.
9. It _____ (be) I who should be blamed.

10. None of your models _____ (be) carefully labeled.
11. Gold, as well as iron, _____ (be) found in Mexico.
12. None of the boys here _____ (be) known to me.
13. The jewel, together with my passport, _____ (have) been stolen.
14. She who _____ (be) beautiful will have a head-start in life.
15. The principal, with all the teachers, _____ (be) present at the meeting.
16. The building, with its contents, _____ (be) insured.
17. Mr. Wong, accompanied by his wife, _____ (attend) the social gathering.
18. Tom, together with David, _____ (be) going to visit us on Sunday morning.
19. It _____ (be) my mother who _____ (cook) food for us.
20. He who _____ (work) hard will succeed in life.