KĀSIGA SCHOOL
DEHRADUN

Holiday Homework Summer Break 2021

HOLIDAY HOMEWORK GRADE 10
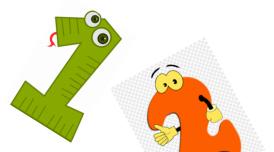
ENGLISH

Holiday Project English

Class	Project	Instructions
10	E- magazine	1. Create an e-magazine in the ppt format. 2. The magazine will have a cover page with a creative name, theme and follow a format so that your work is neat. The best magazines will be displayed for all to see! :) 3. Take up a theme like automobiles, technology, entertainment, music, Hollywood, Sports, gadgets, fashion, Tourism and Science etc. You can focus on one theme or combine both. 4. The magazine will have a cover page, content page and editorial. Focus on news, interviews, and facts for the related field. 5. It must have at least 20 slides/pages. 6. Make it colorful and interesting. You can select between a ppt or pdf format, or something even better if it makes your magazine stand out. 7. Keep the format semi-formal. Avoid controversial or foul language. 8. Send me on your work on Teams or my mail- kharrit@kasigaschool.com 9. Very important!! This will be the project work for the board exams! 10. Full Marks- 20 11. Last date of submission- 25.06.2021

HINDI

१ अवकाश के समय में बिताये पांच दिनों .की डायरी लिखकर प्रस्तुत कीजिये |

२| के कृतित्व पर आधारित एक पीपीटी तैयार कीजिये 'पन्त' कवि सुमित्रानंदन .[न्यूनतम १०स्लाइड्स [

३इस विषय पर पांच व्यक्तियों के विचार लीजिये ? शिक्षा एवं अनुभव में कौन श्रेष्ठ है. | तथा वीडियो के माध्यम से प्रस्तुत कीजिये

<u>Holiday Homework</u>

GRADE 10

SCIENCE

PHYSICS

1. List four characteristics of the images formed by plane mirrors.
2. What is the magnification of a plane mirror?
3. Why a convex mirror is used as the rear view mirror of a vehicle and not a plane mirror?
4. What is lateral inversion?
5. What is the radius of curvature of plane mirror?
6. Draw the ray diagram and also state the position, the relative size and the nature of image formed by a concave mirror when the object is placed at the centre of curvature of the mirror.
7. What kind of mirrors are used in big shopping stores to watch activities of customers?
8. Where an object should be placed in front of a concave mirror so as to get unit magnification?
9. Name the type of spherical mirror used by a dentist to see the teeth of a patient clearly.
10. A beam of light parallel to the principal axis of a concave mirror converges to a point. What is the point called? Draw a diagram to illustrate it.
11. Draw and explain the ray diagram formed by a convex mirror when
    a. Object is at infinity
    b. Object is at finite distance from the mirror
12. Name the mirror which can show the size of the object to be double of its original.
13. A student has three concave mirrors A, B and C of focal lengths 20 cm, 15 cm and 10 cm respectively. For each concave mirror he performs the experiment of mage formation for three values of object distance of 30 cm, 10 cm and 20 cm. Giving reason answer the following:
    (a) For the three object distances, identify the mirror which will form an image equal in size to that of object. Find at least one value of object distance.
    (b) Out of the three mirrors, identify the mirror which would be preferred to be used for shaving purpose.
    (c) For the mirror B, draw ray diagram for image formation for any two given values of object distance.
14. Draw a ray diagram to show the path of the reflected ray corresponding to an incident ray which is directed parallel to the principal axis of a convex mirror. Mark on it the angle of incident and the angle of reflection.
15. A spherical mirror produces an image of magnification -1 on a screen placed at a distance of 50 cm from the mirror.
    (a) Write the type of mirror.
    (b) Find the distance of the image from the object.
    (c) What is the focal length of the mirror?
    (d) Draw the ray diagram to show the image formation in this case.

CHEMISTRY

INSTRUCTIONS-

a. The given worksheet to be done in chemistry notebook.

b. All work to be submitted by 01.07.21 on MS Teams assignment or on the given email id- rmathur@kasigaschool.com

c. This homework is a part of internal assessment and marks will be awarded for it.

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1. Write a chemical equation when magnesium metal reacts with aqueous hydrochloric acid to produce a solution of magnesium chloride and hydrogen gas.

2. Can a combination reaction be redox reaction?

3. Why do we apply paint on iron articles?

4. What are the different types of reactions?

5. What is a decomposition reaction? Give example.

6. Define displacement reaction.

7. What happens when sodium reacts with water?

8. Write the chemical equation and name the reaction when a solution of sodium chloride is mixed with a solution of silver nitrate and a white precipitate of silver chloride is formed.

9. Why does the color of copper sulphate solution change, when an iron nail is dipped in it?

10. Why is photosynthesis considered as an endothermic reaction?

11. Potassium chlorate ($KClO_3$) on heating forms potassium chloride and oxygen. Write a balanced equation for this reaction.

12. Give an example of a chemical reaction characterized the change in temperature.

13. What type of chemical reactions take place when:

(a)Limestone is heating?

(b)A magnesium wire is burnt in air?

(c)Electricity is passed through water?

(d)Ammonia and hydrogen chloride are mixed?

(e)Silver bromide is exposed to sunlight?

14. Nickel (II) nitrate is prepared by heating nickel metal with liquid dinitrogen tetroxide. In addition to the nitrate, gaseous nitrogen monoxide is formed. Write the balanced equation.

15. Write a balanced chemical equation with state symbols for the following reactions:-

i.Solution of barium chloride and sodium sulphate in water react to give insoluble barium sulphate and the

solution of sodium chloride.

ii.Sodium hydroxide solution (in water) reacts with hydrochloric acid solution (in water) to produce sodium chloride solution and water.

BIOLOGY

Topic : Transportation in Human Beings

https://www.youtube.com/watch?v=HvKR3YPTG50

https://www.youtube.com/watch?v=_qmNCJxpsr0

Watch the above links, refer to your textbook and other resources from the internet and make a Powerpoint presentation. Your presentation should include the following:

- Components of the transport system in human beings
- Functions of these components
- Describe double circulation in human beings. Why is it necessary?

SOCIAL STUDIES

PROJECT

The students will make a project on any one of the following topics.

<p align="center">Consumer Awareness</p>

<p align="center">OR</p>

<p align="center">Social Issues (Any one major social issue)</p>

<p align="center">OR</p>

<p align="center">Sustainable Development</p>

The students are expected to apply the Social Science concepts that they have learnt over the years in order to prepare the project report. Students may collect data using different primary and secondary resources to prepare the project. If possible, ***different forms of art*** may be integrated in the project work.

The distribution of marks over different aspects relating to Project Work is as follows:

S. No.	Aspects	Marks
a.	Content accuracy, originality and analysis	2
b.	Presentation and creativity	2
c.	Viva Voce	1

The project report should be handwritten by the students themselves in a file.

Read the textbooks and answer the following questions in your S St. copy.

1. Write a note on European society as it existed in the 19th century.
2. What were the political beliefs of the middle classes in Europe in the 19th century?
3. Write a note on the Treaty of Vienna of 1815.
4. Write a note on Giuseppe Mazzini.
5. What are the reasons for land degradation in India and what steps can be taken to protect land?
6. Write a detailed classification of soils in India. On the physical map of India draw the distribution of the major soil types.

MATHEMATICS

"Holiday home work will be uploaded in teams under assignments, kindly check there for the same."