

Grade -9th
Holidays homework

English 1

Prepare an assignment on one composition (maximum 500 words)

1. Describe the local farmers market where farmers come to sell their products directly
2. Narrate an experience that made you realize that your parents were right, State what you learnt from that experience.

Eng-II

Prepare an assignment on **one** question given below (Maximum 1000 words)

- Q 1. Explain the main theme of poem ,The work of artifice. How does the poet use metaphor of bonsai tree to comment on societal expectations place on women.
- Q 2. Write down the brief summary of story, "Oliver asks for more"
- Q 3 Write down the summary of act 1 in detail

Geography

1. Try to make a project at home to save water which is going waste from purifier.(
Creative work for home)
2. Prepare an assignment on the topic of volcanoes. (Structure of a volcano, causes of volcanic eruption, types of volcanoes, constructive and destructive effects of volcano, distribution of volcanoes)
3. Revise unit 1 syllabus

Physics

1. Make an assignment on topic which is given by physics teacher
2. Complete the lab manual which is given by physics teacher
3. Revise unit 1 syllabus

Punjabi AsweInmYntW

1. ਲੇਖ ਤੁਸੀਂ ਕਿਸੇ ਇਤਿਹਾਸਿਕ ਸਥਾਨ ਦੀ ਯਾਤਰਾ ਕੀਤੀ ਹੈ। ਉਸ ਬਾਰੇ ਦੱਸੋ ਅਤੇ ਤਸਵੀਰਾਂ ਵੀ ਚਿੱਪਕਾਓ।
2. ਲੇਖ ਵਾਦੜੀਆ ਸਜਾਦੜੀਆ ਨਿਭਣ ਸਿਰਾਂ ਦੇ ਨਾਲ ਲਿਖੋ ਅਤੇ ਤਸਵੀਰਾਂ ਵੀ ਚਿੱਪਕਾਓ।
3. Revise the Syllabus of unit-1

Mathematics

Students will solve the worksheet given by subject teacher

Prepare an assignment on the "Plane Figures"

- Chem:** 1. Complete the lab manual. 2. Prepare the assignment of the given topics.
3. Learn Chapter 1 : The Language Of Chemistry

Physical education:- Complete Lab Manual with 3 favourite games and athletics events

Bio: Make Assignment on Chapter Pollination and Fertilization

- Complete lab manual
- Prepare Chapter 1 , 3 ,4 For Unit -1 Exam

History: Make a Assignment On Constitution and its features.

Learn The syllabus of Unit-1

Computer: Prepare an assignment on the topic What is an object and difference between object and class , Give real world examples of abstraction and Write a simple program of java.

1. Write each of the following as a terminating decimal.

(a) $\frac{15}{200}$

(b) $\frac{693}{616}$

(c) $\frac{117}{50}$

2. Convert $\frac{p}{q}$ form.

(a) $2.3\overline{56}$

(b) $5.\overline{34}$

(c) $0.\overline{57}$

3. Prove that $\sqrt{5}$ is an irrational number.

4. Arrange the following in ascending order.

(a) $2\sqrt{3}, \sqrt{15}, 3\sqrt{2}$

(b) $\sqrt[3]{3}, \sqrt[3]{4}, \sqrt[3]{5}$

5. State whether the following are surds or not.

(a) $\sqrt{20} \times \sqrt{45}$

(b) $8\sqrt{10} \div 4\sqrt{15}$

6. Rationalise:

(a) $\frac{3}{4+\sqrt{2}}$

(b) $\frac{2+\sqrt{3}}{\sqrt{5}-\sqrt{3}}$

(c) $\frac{3\sqrt{2}}{\sqrt{6}-\sqrt{3}}$

7. Arrange in simplest form.

(i) $9\sqrt{2} - \sqrt{8} - 4\sqrt{2}$

(ii) $\sqrt{3}(5\sqrt{3} + 2\sqrt{3})$

iii) $\frac{8}{5-\sqrt{3}} + \frac{2}{5+\sqrt{3}}$

8. Find the value of x and y .

(i) $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = x+y\sqrt{3}$

(ii) $\frac{\sqrt{6}+\sqrt{5}}{3\sqrt{5}+2\sqrt{6}} = a+b\sqrt{30}$ (find 'a' and 'b')

9. Expand the following:

(a) $(4x-2)^2$ (h) $\left(\frac{6}{5}x^2-5\right)\left(\frac{6}{5}x^2+5\right)$

(c) $(2x^2+y)(2x^2-y)$ (d) $\left(\frac{2x}{y}-\frac{y}{x}\right)^2$

(e) $(7a-5b)^3$ (f) $(x^2+x+1)^2$

10. Simplify by expanding.

(a) $(x-2)^3 - (x+2)^3$ (h) $(7x+2y)^2 - (7x-2y)^2$

11. Factorise:-

(a) $4a^2-5a-6x^2$ (b) $36+12a+a^2$

(c) $5(2a+1)^2-17(2a+1)+6$ (d) x^2-y^2+6y-9

(e) $\frac{x^3}{64} - \frac{y^3}{27}$ (f) $8x^6 - 27y^3$

(g) $(x-2y)^3 - 8y^3$ (h) $25x^2-10x+1-36y^2$

12. If $\sin \theta = \frac{5}{13}$ find the value of

(a) $\sin \theta + \cos \theta$ (b) $\sin \theta - \tan \theta$

13. If $\cos B = \frac{p}{q}$, find all other trigonometric ratios.

14. If $\sin \theta = \frac{4}{5}$, calculate $\frac{5 \sin \theta - 3 \cos \theta}{2 \cos \theta + 2 \sin \theta}$

15. If $5 \sin \theta = 3$ find the value of

$\frac{5 \sin \theta - 2 \cos \theta}{\tan \theta}$