



Florence International School

Affiliated to CBSE | ISO 21001:2018 Certified School

Holiday Homework 2022-2023

Grade 10

<p><u>English</u></p>	<p>Reading</p> <ul style="list-style-type: none">❖ Given below are the names of four fictional works. Read any one of them and then write about your favourite characters from it and the reason for liking them. <ol style="list-style-type: none">1. Bachelor of Arts by R. K. Narayan2. David Copperfield by Charles Dickens3. Kanthapura by Raja Rao4. Emma by Jane Austen <p>Revise the Syllabus of Periodic Test</p>
<p><u>Hindi</u></p>	<ul style="list-style-type: none">❖ योगकामहृत्वविषयपरएकप्रोजेक्टतैयारकीजिए।❖ मैथिलीशरणगुप्तजीकाजीवनपरिचयबतातेहुएमनुष्यताकविताकासारलिखें।❖ एकलघुकथालिखिए, जिसमेंआपकेसपनोंकावर्णनहोऔरआपअपनेसपनोंकोकिसप्रकारपूराकरनाचाहतेहो।❖ यू .टीपाठ्यक्रमयादकरें।
<p><u>SCIENCE</u></p>	<p><u>BIOLOGY</u></p> <ul style="list-style-type: none">❖ Project work:-Make a chart or model of Human digestive system.❖ ASSIGNMENT <p>Q1. Why do herbivores have longer, small intestine than carnivores? Q2. Write the balanced chemical equation for the process of photosynthesis. How photosynthesis occurs in desert plants? Q3. In single celled organisms diffusion is sufficient to meet all their requirements of food, exchange of gases . or removal of wastes but it is not in case of multicellular organisms. Explain the reason for this difference. Q4. Draw a neat labelled diagram of human alimentary canal. Q5. Explain the process of nutrition in Amoeba.</p>

Q6. How do guard cells regulate the opening and closing of the stomata?

Q7. Explain exchange of gases in humans.

Q8. State the role of the following in human digestive system:

(a) Digestive enzymes

(b) Hydrochloric acid (HCl)

(c) Villi

Q9. Draw a diagram of human respiratory system and label the following:

(a) Part where air is filtered by fine hairs and mucus

(b) Part which terminates in balloon like structures

(c) Part which separates chest cavity from abdominal cavity

(d) Part where exchange of gases takes place.

Q10. Draw a neat labelled diagram of opened and closed stomata.

PHYSICS AND CHEMISTRY

1. Revise chapter 1,2 and 10.
2. Solve NCERT exemplar of chapter 1,2, and 10.
3. ASSIGNMENT: -
 - (a) Can we place copper salt in zinc bowl? Give reason for your answer.
 - (b) Differentiate between:
 1. Acid and base
 2. Displacement and double displacement reaction
 3. Combination and decomposition reaction
4. Why we rub magnesium ribbon with sand paper before burning it?
5. How can we say that respiration is an exothermic reaction?
6. State the reaction used in white washing?
7. How can we test the presence of carbon dioxide gas?
8. What do you mean by pH? who invented pH scale?
9. What is water of crystallisation? Does it affect the property of a compound?
10. Draw ray diagrams of the following: -
 - (a) Concave mirror
 - (b) Convex mirror
 - (c) Convex lens
 - (d) Concave lens
11. State sign conventions.
12. State the law of reflection and refraction.
13. If the magnification of the object is +2 and focal length of the mirror is 50 cm. draw ray diagram, type of mirror used, and the nature and position of the image.
14. Draw the rules to draw ray diagram in case of lens.
15. If the range of the human eye to interact with EM wave in vacuum is 400 angstroms to 7000 angstroms. Calculate the minimum and maximum frequency he can see?

<p><u>Maths</u></p>	<ul style="list-style-type: none"> ❖ Verify the algebraic identity $(a+b)^2 = (a-b)^2 + 4ab$ ❖ Find out the origin story of Quadratic formula and write about the mathematicians involved. ❖ Complete the assignments given. ❖ Revise the syllabus completed till date (Note: Do all the work in A4 plain white sheets and compile it in one single file)
<p><u>Social Studies</u></p>	<ul style="list-style-type: none"> ❖ . Prepare any one project on the following topics: Consumer Awareness OR Social Issues OR Sustainable Development
<p><u>Computer</u></p>	<ul style="list-style-type: none"> ❖ Project work Make a animating scenario using chart papers describing the future based on “smart India” .