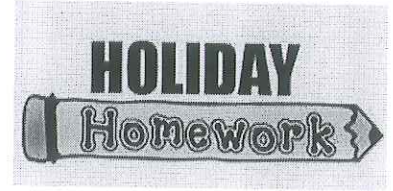




SILVER JUBILEE YEAR (1999-2023)
HOLIDAY HOMEWORK

Dear Parents,

Greetings from New Al Wurood!



GRADE 10 - HOLIDAY ASSIGNMENT, 2023

| Subject | Assignment |
|---------|---|
| English | What is the importance of Trust in one's life ? With reference to the story 'A Question of Trust . Write an incident. |
| SCIENCE | <p>PHYSICS:</p> <p>Expt 1: Determination of the focal length of: i) Concave mirror ii) Convex lens by obtaining the image of a distant object. Expt 2: Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result. Expt 3: Tracing the path of the rays of light through a glass prism. Expt 4: Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I. Expt 5: Determination of the equivalent resistance of two resistors when connected in series and parallel.</p> <p>CHEMISTRY:</p> <p>1. Finding the pH of the following samples by using pH paper/universal indicator: Unit-I (i) Dilute Hydrochloric Acid (ii) Dilute NaOH solution (iii) Dilute Ethanoic Acid solution (iv) Lemon juice (v) Water (vi) Dilute Hydrogen Carbonate solution</p> <p>2. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with: a) Litmus solution (Blue/Red) b) Zinc metal c) Solid sodium carbonate</p> <p>3. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:</p> |

| | |
|-----------------------|---|
| | <p>i) $ZnSO_4(aq)$ ii) $FeSO_4(aq)$ iii) $CuSO_4(aq)$ iv) $Al_2(SO_4)_3(aq)$ Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.</p> <p>BIOLOGY: Assignment -1 <input type="checkbox"/> Completion of Practical record work Experiment No:6 Preparing a temporary mount of a leaf peel to show stomata. Experiment No:7 Experimentally show that carbon dioxide is given out during respiration. Experiment No 12 Studying (a) Binary fission in Amoeba and (b) budding in yeast and hydra with the help of prepared slides. Assignment -2 Planning and Preparation of Science Expo</p> |
| SOCIAL SCIENCE | <p>Every student has to compulsorily undertake any one project on the following topics: Consumer Awareness</p> <p>OR Social Issues or Sustainable Development</p> |
| MATH | <p>Math's lab activity -Kindly refer to the lab activities shared through mail. Project work: Body Mass Index. (BMI) Measure the heights (in centimeters) and weights (in kilograms) of all the students in your class. Then, calculate their BMI indexes and declare them fit or not fit using the formula [BMI = Weight/(Height) 2] a. If your calculated BMI is below 18.5, then he/she is underweight b. If the BMI is in between 18.5 and 24.9, then he/she is healthy c. In case the BMI is in between 25 and 29.9, then he/she is overweight d. If the BMI is higher than 30, then he/she is obese</p> |
| HINDI | <p>1..आपके विद्यालय के वार्षिक उत्सव में नाटक मंचन हेतु इच्छुक छात्रों को जानकारी देने हेतु एक सूचना तैयार कीजिए। 2. आप हिन्दी छात्र परिषद के सचिव प्रगण्य हैं। आगामी सांस्कृतिक संध्या के बारे में अनुभागीय दीवार पट्टिका के लिए 25-30 शब्दों में सूचना तैयार कीजिए। 3. 'कान्हा डेयरी' अपने उत्पादों की बिक्री बढ़ाने के लिए एक विज्ञापन तैयार करवाना चाहते हैं। इस संबंध में आप उनके लिए विज्ञापन लेखन कीजिए। 4. उत्तर प्रदेश पर्यटन निगम पर्यटकों की संख्या बढ़ाना चाहता है। उसके लिए एक आकर्षक विज्ञापन तैयार कीजिए.</p> |
| URDU | <p>۱۰ مختلف عنوان پر مضمون لکھیں</p> |

Note: Holiday homework has been designed with the following objectives in mind:

- 1.To keep the children connected with the syllabus.
- 2.To enhance children's creativity and engage them constructively during the holidays.
- 3.To bring out the innate potential in children.

Parents are the facilitators of the child at home and are requested to assist your child to do their holiday assignment and submit it on time after vacation as it will be graded.

ASSIGNMENT No.II.

(Planning and preparation for Cluster Science expo during vacation)

SCIENCE EXPO-2023

(Classes 9-12)

OBJECTIVE:

The objectives of organizing Science Project Competition is to emphasis on the development of science and technology as a major instrument for achieving goals of self-reliance and socio economic and socio ecological development.

The main theme of Science Exhibition:

“UNDERSTANDING ECOSYSTEM FOR HEALTH AND WELL-BEING”

SUBTHEMES:

- 1) *Sub-theme I: Know your ecosystem*
- 2) *Sub-theme II: Fostering health, nutrition and well-being*
- 3) *Sub-theme III: Social and cultural practices for ecosystem and health*
- 4) *Sub-theme IV: Ecosystem based approach (EBA) for self-reliance*
- 5) *Sub-theme V: Technological innovation for ecosystem and health*

Note: There are two categories

(i) Junior (IX & X)

(ii) Senior (XI & XII)

RULES:

The exhibit /model include:

1. *Working/Attractive models to explain a concept, principle or a process.*
2. *An indigenous design of a machine /device*
3. *An innovative /inexpensive design or technique*
4. *Application of basic principles of Science and Technology.*

5. *Scheme /design of a device or machine to reduce production cost .*

6. *Investigation based study.*

INSTRUCTIONS:

1. *Teams are already assigned containing 3 to 4 members in each team.*

2. *Choose you own project(idea) which connects with the main theme and subtheme as well.*

3. *Prepare some essential questions which could brainstorm your idea.*

4. *Predict your experimental outcome.*

5. *Formulate hypothesis based on the predictions*

6. *Select dependent and independent variable*

7. *Procure materials required for your project*

8. *Plan of action to execute the idea , for example circuit diagram / model experimental set up (graphical or digital set up), even you can prepare PPT to show how you are going to execute your Idea.*

Note: IF possible you can present your working model /still model also if it is ready.

9. *After the reopening of school , after vacation, each team has to submit your ground work done which are listed in the instructions with the help of PPT(Even you can present your model) if it is ready)*

10. *And then you can start the execution/assembling of your model.*

Note: 1)For Classes(IX & X) ,this project will be considered as one of the SUBJECT ENRICHMENT ACTIVITY for SECOND TERM.

For Classes(XI & XII)This project will be considered as Investigatory project (based on the contents) {Physics,Chemistry ,Bio and Computer Science) as a part of Board practical examinations, So involvement of all the students is mandatory.

For queries and guidance you can contact your science teachers and regarding presentation you can contact English teachers.

Supporting website for your reference

<https://www.theedadvocate.org/18-of-the-best-12th-grade-science-projects-and-experiments/>

<https://science.wonderhowto.com/how-to/best-investigatory-projects-science-16-fun-easy-ideas-kickstart-your-project-0147689/>

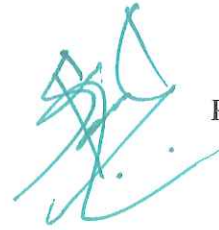
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Regards,
Principal.

