



**NEW ALWUROOD INTERNATIONAL SCHOOL, JEDDAH K S A**  
**SUMMER VACATION ASSIGNMENT**  
**Class –XII(Science) - July - August 2020**

<b>SUBJECT</b>	<b>ASSIGNMENT PLANNED WITH SPECIFICATION</b>	<b>REMARKS</b>
<b>ENGLISH</b>	<p>Copy the link address given below to listen to the conversation between head of TED, <b>Chris Anderson</b> and <b>Tech Futurist Ben Pring</b> on the topic '<i>The new jobs of the future, and other insights on the changing workforce</i>'. Listen carefully and make notes on paper. Go through the whole listening and see if you can summarize the conversation using your notes. You can upload the notes and summary on English Google Classroom.</p> <p><b>Link address:</b> <a href="https://www.ted.com/talks/ben_pring_the_new_jobs_of_the_future_and_other_insights_on_the_changing_workforce">https://www.ted.com/talks/ben_pring_the_new_jobs_of_the_future_and_other_insights_on_the_changing_workforce</a></p>	
<b>MATHS</b>	<ul style="list-style-type: none"><li>• Solve the given MCQ worksheets (Math chapters 1,2,3,4,5,6 )</li></ul>	MCQs have forwarded through g-mail & uploaded in Google classroom.
<b>PHYSICS</b>	<ul style="list-style-type: none"><li>• <b>Assignment –I</b> :Solve the given MCQ worksheets (Chapters 1-6)</li><li>• <b>Assignment –II</b>:Plan and prepare for Science Expo project (Guidelines for Science expo are given below)</li></ul>	MCQs worksheets and guidelines for science expo have forwarded through g-mail & uploaded in Google classroom.
<b>CHEMISTRY</b>	<ul style="list-style-type: none"><li>• <b>Assignment –I</b>: Solve the given MCQ worksheets (Chapters 2,3,4,5 &amp;10)</li><li>• <b>Assignment –II</b>: Plan and prepare for Science Expo project (Guidelines for Science expo are given below)</li></ul>	MCQs worksheets and guidelines for science expo have forwarded through g-mail & uploaded in Google classroom.
<b>BIOLOGY</b>	<ul style="list-style-type: none"><li>• <b>Assignment –I</b>: Solve the given MCQ worksheets. (Chapters 1,2,3 &amp; 4)</li><li>• <b>Assignment –II</b>:Plan and prepare for Science Expo project (Guidelines for Science expo are given below)</li></ul>	MCQ worksheets and guidelines for science expo are forwarded through g-mail & uploaded in Google classroom.
<b>COMPUTER SCIENCE</b>	<ul style="list-style-type: none"><li>• Practice 20 Python programs as per CBSE syllabus</li></ul>	Program list uploaded in Google classroom
<b>ENTREPRENEURSHIP</b>	<ul style="list-style-type: none"><li>• <b>Project Work-I</b>-Business Plan</li><li>• <b>Project Work-II</b>- Market Survey (New Product or Existing Product)</li></ul>	Project guide lines are forwarded through e-mail(Google classroom)

**Note: Kindly submit the vacation assignments on 1<sup>st</sup> September, 2020 without fail**

## **ASSIGNMENT No. II(Physics,Chemistry and Biology)**

**(Planning and preparation for Science expo during vacation)**

**SCIENCE EXPO-2020**

**(for Classes IX-XII)**

### **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:**

**“SCIENCE AND TECHNOLOGY FOR HEALTHY LIVING”**

### **SUBTHEMES:**

- 1) *Health, Nutrition and Cleanliness.*
- 2) *Resource Management.*
- 3) *Industry (Desalination Plant, Petrochemical plant etc.)*
- 4) *Agriculture and Food Safety / security.*
- 5) *Disaster Management.*
- 6) *Eco- friendly tools and techniques( Eg. Waste Management Techniques, Pollution Control techniques)*
- 7) *Conservation of natural resources.*
- 8) *Computer Sciences and IT Industry.*
- 9) *Nanotechnology and its applications.*
- 10) *Socially useful electronic, electrical and mechanical devices.*
- 11) *Biotechnology & its applications.*

*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) Choose your partner each team can contain two members
- 2) Choose your 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 variables
- 7) Procure material 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: For Classes(XI & XII) This project will be considered as Investigatory project (based on the contents ) {Physics, Chemistry and Bio} 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.*

**Happy  
Holidays!**

PRINCIPAL