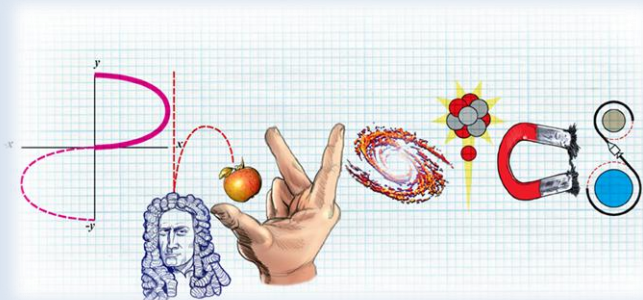


MY HOLIDAY'S HOMEWORK

SESSION 2023-24

CLASS- XI SCIENCE

Subject: Physics



Complete the Practical File and Activity for *CBSE ACADEMICS RECORDS for Session 2023-24*.

Important Instructions:

- Complete your file with at least SIX activities THREE from each section ON THE PRACTICAL FILE as listed below.
- Arrange material required and practice to demonstrate any two activities, one from each section and same is to be performed in the class after holidays.
- You can take the help of internet, resource/reference books.
- In case of any doubt, do discussion with your subject teacher.

Section – A

Activities

1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.
2. To determine mass of a given body using a metre scale by principle of moments.
3. To plot a graph for a given set of data, with proper choice of scales and error bars.
4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
5. To study the variation in range of a projectile with angle of projection.
6. To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane).
7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

Section – B

Activities

1. To observe change of state and plot a cooling curve for molten wax.
2. To observe and explain the effect of heating on a bi-metallic strip.
3. To note the change in level of liquid in a container on heating and interpret the observations.
4. To study the effect of detergent on surface tension of water by observing capillary rise.
5. To study the factors affecting the rate of loss of heat of a liquid.
6. To study the effect of load on depression of a suitably clamped metre scale loaded at
 - (i) its end
 - (ii) in the middle.
7. To observe the decrease in pressure with increase in velocity of a fluid.

Subject: Chemistry



LIST OF PRACTICALS

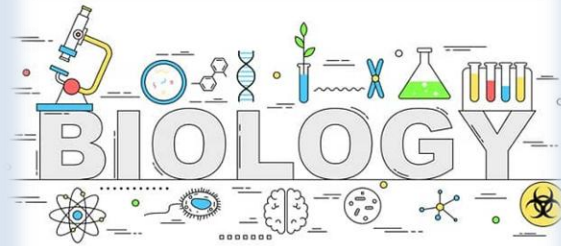
- (a). Determination of strength of a given solution of Hydrochloric acid by titrating it against standard Sodium Carbonate solution.
- (b). Complete 7 salt analysis practical from the lab manual.

INVESTIGATORY Projects'

For the allotted Project click on the link below:

<https://drive.google.com/file/d/1XtWKjIPqLzy5EybnBURfu7OZ2gixPXkk/view?usp=sharing>

Subject: *Biology*



➤ **Complete project file as a**

- 1. Mitosis and its significance**
- 2. Meiosis and its significance**
- 3. Effect of gibberellins on germination and shoot elongation**
- 4. To study locomotion and role of different fins in the fishes**
- 5. Modification in leaves**
- 6. Modification in roots**
- 7. Plant hormones and their effects**
- 8. Transport system in humans**
- 9. E.C.G. and disorders related to hearts**
- 10. Disorder related to endocrine system.**

➤ **Complete your practical file**

A. List of Experiments

- (i). Preparation and study of T.S. of dicot and monocot roots and stems (primary).
- (ii). Study of osmosis by potato osmometer.
- (iii). Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb).
- (iv). Study of distribution of stomata on the upper and lower surfaces of leaves.
- (v). Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.
- (vi). Separation of plant pigments through paper chromatography.

B. Study and observe the following (Spotting):

- (i). Parts of a compound microscope.
- (ii). Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.
- (iii). Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.
- (iv). Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.
- (v). Different types of inflorescence (cymose and racemose).
- (vi). Human skeleton and different types of joints with the help of virtual images/models only.

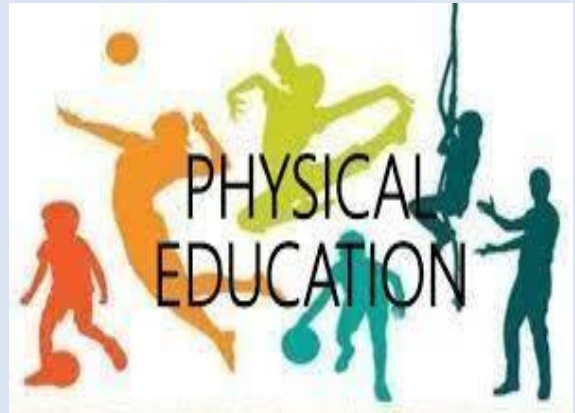


ENGLISH

-
1. DO 3 TO 7 READING PASSAGES (PAGE 21 TO 29)
 2. DO 1 TO 5 NOTICES (PAGE 58 TO 60)
 3. DO 2 TO 5 ARTICLE WRITING (PAGE 133 TO 137)
 4. COMPLETE ASSIGNMENTS OF :-
 - (a). MY MOTHER AT 66,
 - (b). KEEPING QUIET AND
 - (c). THE LAST LESSON

COMPLETE ALL THE ABOVE GIVEN WORK ON
EVERGREEN PRACTICE PAPER.

**PHYSICAL
EDUCATION**



Complete PRACTICAL FILE

TOPIC:- ATHLETICS

1. DRAW THE TRACK FROM PAGE NO. 22 AND WRITE TWO PAGES OF INTRODUCTION ON HISTORY AND CLASSIFICATION OF ATHLETICS.

2. FIELD EVENTS: FROM PAGE NO. 30, 32, 34, 36, 38, 40, 41, AND 43 OF PHYSICAL EDUCATION PRACTICAL NOTE BOOK.

JUMPING EVENTS

LONG JUMP

HIGH JUMP

TRIPLE JUMP

POLE JUMP

THROWING EVENTS

SHOT PUT

DISCUS THROW

JAVELIN THROW

HAMMER THROW

NOTE: DRAW THE SECTORS OF GIVEN EVENTS AND WRITE ONE PAGE OF INTRODUCTION OF GIVEN EVENTS. DON'T PASTE THE PICTURES

GAMES:-

1. BASKET BALL

2. HOCKEY.

3. VOLLEY BALL

NOTE: DRAW THE GROUNDS OF GIVEN GAMES AND WRITE TWO PAGES OF INTRODUCTION AND RULES OF THE GIVEN GAMES.



HEALTH AND PHYSICAL EDUCATION

TOPIC:- YOGA AND ASANA

1. BHUJANG ASANA
2. PAVANMUKTASANA
3. GOMUKH ASANA
4. SUKH ASANA
5. MATSY ASANA

NOTE:

PASTE THE PICTURES OF GIVEN ASANAS AND WRITE TWO PAGES OF INTRODUCTION, PROCEDURE AND BENEFITS OF GIVEN ASANAS.

Fine Arts



1. DO PRACTICAL WORK ON ARTFILE

A. Draw Landscape – 2

Sheet size_ A2

B. Draw any Painting_ 2

Sheet Size _A2

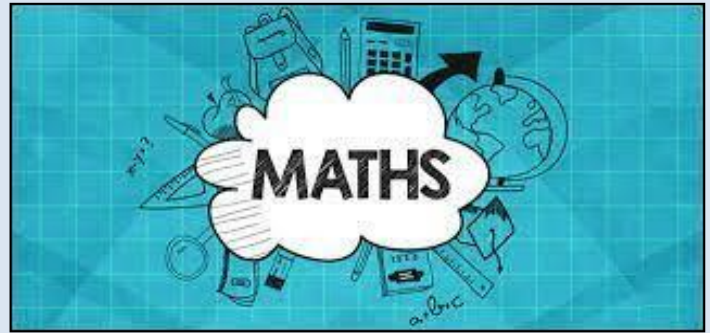
(Quilling art, portrait, Mandalaart, Folk art)

C. Draw Composition_ 2

Sheet Size _A2

MATERIAL:- Ivory Chart, Water Colours, Oil Pastel, Quilling Strips

MATHEMATICS



1. MATHS LAB ACTIVITY:

TO WRITE THE SAMPLE SPACE WHEN A DICE IS ROLLED ONCE, TWICE

2. LEARN AND WRITE ALL TRIGONOMETRIC FORMULAS FROM CH – 3

ARTIFICIAL INTELLIGENCE

Topic: - Text Recognition

You know that now all tolls and challans are captured through RFID tags and number plate detection. With the help of diagram, explain the working of Automatic Number-Plate Recognition.

Topic: - Speech Processing

When we talk to machines like Alexa and Google Assistant, they understand our voice commands and then replay back in voice output. They are using speech recognition and processing to make it work. Make a diagram how speech recognition system works. Write 250 -300 words in MS Word document using speech recognition system and paste the output.

Topic: - Computer Vision

AI enables computer to “see” and extract meaningful information from digital images, videos and other visual input. Do you know? It is easy to use AI to convert any handwritten sketch to HTML code. For this visit <http://sketch2code.azurewebsites.net> . Write steps how it works with example.

Topic: - Machine Learning

Ocean by Code.org is designed to introduce the concept of machine learning. We can understand how the training data is used to enable a machine to see and classify the objects. Open the URL in your web browser. <http://studio.code.org/s/oceans/lessons/1/levels/1> . Explain how AI identifies Objects using Training data.

Topic:- Matrix

If $A = \begin{bmatrix} 1 & 1 \\ -2 & 0 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & -1 \\ 1 & 1 \end{bmatrix}$

Solve for matrix X:

(1) $X+2A = B$

(2) $3X + B +2A = 0$

(3) $3A - 2X = X - 2B$

Note: - Do HHW on Assignment Sheets.



SEWA (Social Empowerment through Work Education and Action) an endeavor by **CBSE** is a program that aims to focus on the mental, emotional and social health of a student. It is a mandatory activity under CBSE norms.

TOPIC: COLEUS PLANT CARE / SAVE WATER

Do MY SEWA PROJECT On separate assignment sheets

INSTRUCTIONS

- *First sheet: Project name, CBSE logo, school logo, submitted to, submitted by*
- *Second sheet: Index*
- *Third sheet: Acknowledgement*
- *Fourth sheet: My Sewa Promise Form*

FOR OTHER SHEETS USE THE LINK GIVEN BELOW:

<https://youtu.be/cllamQJv6J0>



ਛੁੱਟੀਆਂ ਦਾ ਕੰਮ

ਜਮਾਤ - ਗਿਆਰਵੀਂ

ਦਿੱਤੇ ਗਏ ਵਿਸ਼ਿਆਂ ਸੰਬੰਧੀ ਪ੍ਰੋਜੈਕਟ (Project) ਤਿਆਰ ਕਰੋ:-

- 1) ਪੰਜਾਬ ਦੇ ਰਸਮ -ਰਿਵਾਜ
- 2) ਪੰਜਾਬ ਦੇ ਮੇਲੇ ਤੇ ਤਿਉਹਾਰ
- 3) ਪੰਜਾਬ ਦੇ ਲੋਕ ਨਾਚ
- 4) ਪੰਜਾਬ ਦੀਆਂ ਲੋਕ-ਖੇਡਾਂ
- 5) ਕਰੋਨਾ ਕਾਲ ਸਮੇਂ ਉੱਭਰੀ ਲੋਕ ਸੇਵਾ ਭਾਵਨਾ
- 6) ਵਿਦੇਸ਼ਾਂ ਵਿੱਚ ਜਾਣ ਦੀ ਹੋੜ (ਸ਼ੌਕ, ਮਜ਼ਬੂਰੀ ਜਾਂ ਸਮਾਜਿਕ ਚੁਤਬਾ)
- 7) ਵਿਗਿਆਨੀ (ਸਮਾਜ ਨੂੰ ਦੇਣ)
- 8) ਮਹਾਂਪੁਰਖ (ਜੀਵਨੀ ਤੇ ਉਦੇਸ਼)
- 9) ਪੰਜਾਬ ਦੇ ਸ਼ਹੀਦ
- 10) ਲੇਖਕ (ਸਾਹਿਤਕ ਦੇਣ)

Do the project on one topic as assigned by your teacher.

LET US MAKE IT EASIER

IN CASE OF ANY DOUBT OR QUERY KINDLY CONTACT THE FOLLOWING:

SUBJECT	NAME OF TEACHER	CONTACT NO.
ENGLISH	MRS. JASDEEP MRS. RAJSHREE	82840-00772 99147-74779
PHYSICS	MR. DALJEET ARORA	9878938322
CHEMISTRY	MR. DALBIR SINGH TOOR	7837357569
BIOLOGY	MRS. SAKSHI GUPTA	7508427400
PHYSICAL EDUCATION	MRS. KIRANJOT KAUR	80549-11448
PAINTING	MRS. MANPREET KAUR	97792-68608
MATHEMATICS	MRS. SATINDER MRS. MANDEEP KAUR	79736-90070 98726-21242
PUNJABI	MR. GURPREET SINGH MRS. TARJINDER	98787-38502 97801-03279
ARTIFICIAL INTELLIGENCE	MRS. SUKHVINDER KAUR	9464536085