

Shri Vithhal Rukhmini College Sawana  
Pracals  
Subject: Zoology

Sr. No.	Name of the Practicals	Video link
<b>B.Sc. I (Sem I)</b>		
1	Classification of chordata	<a href="https://www.youtube.com/watch?v=xl8xwBH15Hg">https://www.youtube.com/watch?v=xl8xwBH15Hg</a>
2	Study of permanent slides of Ascaris eggs	<a href="https://www.youtube.com/watch?v=uNCFWvB_Nfw">https://www.youtube.com/watch?v=uNCFWvB_Nfw</a>
3	Anatomical study of leech: Reproductive system	<a href="https://www.youtube.com/watch?v=8fCsHbbxyro">https://www.youtube.com/watch?v=8fCsHbbxyro</a>
4	Mounting of Mosquitoes	<a href="https://www.youtube.com/watch?v=RLIYuXIUS3k">https://www.youtube.com/watch?v=RLIYuXIUS3k</a>
<b>B.Sc. II (Sem III)</b>		
1	Classification phylum chordata	<a href="https://www.youtube.com/watch?v=uyBhOAY8FAE">https://www.youtube.com/watch?v=uyBhOAY8FAE</a>
2	Osteology: Rabbit	<a href="https://www.youtube.com/watch?v=wOakTEMqy4">https://www.youtube.com/watch?v=wOakTEMqy4</a>
3	Study of Fossils	<a href="https://www.youtube.com/watch?v=SEDFry6DQns">https://www.youtube.com/watch?v=SEDFry6DQns</a>
4	Analogous and Homologous organs	<a href="https://www.youtube.com/watch?v=2N3OPRodRvk">https://www.youtube.com/watch?v=2N3OPRodRvk</a>
5	Connecting links between two different groups	<a href="https://www.youtube.com/watch?v=LXSkblbmlZI">https://www.youtube.com/watch?v=LXSkblbmlZI</a>
6	Histological slides of Amphioxus	<a href="https://www.youtube.com/watch?v=aZJC-ilKKUA">https://www.youtube.com/watch?v=aZJC-ilKKUA</a>
7	T. S. Of stomach of frog	<a href="https://www.youtube.com/watch?v=g3F5Cd8hH0E">https://www.youtube.com/watch?v=g3F5Cd8hH0E</a>
<b>B.Sc. III (Sem V)</b>		
1	Detection blood group in human being	<a href="https://www.youtube.com/watch?v=PLhbRulwNV0">https://www.youtube.com/watch?v=PLhbRulwNV0</a>
2	WBCs count in blood	<a href="https://www.youtube.com/watch?v=7g0wifwNGCQ">https://www.youtube.com/watch?v=7g0wifwNGCQ</a>
3	RBCs Count in blood	<a href="https://www.youtube.com/watch?v=0f9p9JX4qJk">https://www.youtube.com/watch?v=0f9p9JX4qJk</a>
4	Preparation of Haemin crystal	<a href="https://www.youtube.com/watch?v=mOrRJBqm744">https://www.youtube.com/watch?v=mOrRJBqm744</a>
5	Measurement of blood pressure	<a href="https://www.youtube.com/watch?v=UGOoeqSo_ws">https://www.youtube.com/watch?v=UGOoeqSo_ws</a>
6	Histological slides of Respiratory system	<a href="https://www.youtube.com/watch?v=N9AG8RY46Nk">https://www.youtube.com/watch?v=N9AG8RY46Nk</a>

Sr. No.	Name of the Practicals	Video link
<b>B.Sc. I (Sem II)</b>		
1	Use, care and maintenance of microscope	<a href="https://www.youtube.com/watch?v=bKdrAPGImcs">https://www.youtube.com/watch?v=bKdrAPGImcs</a>
2	Gram staining of bacteria	<a href="https://www.youtube.com/watch?v=-OvDvS-Pec">https://www.youtube.com/watch?v=-OvDvS-Pec</a>
3	Preparation of polytene chromosome	<a href="https://www.youtube.com/watch?v=sm3X6HThJNQ">https://www.youtube.com/watch?v=sm3X6HThJNQ</a>
4	Stages of mitosis in onion root tips	<a href="https://www.youtube.com/watch?v=5-ur7bWqIDQ">https://www.youtube.com/watch?v=5-ur7bWqIDQ</a>
5	Demonstration of developing chick embryo	<a href="https://www.youtube.com/watch?v=PedajVADLGw">https://www.youtube.com/watch?v=PedajVADLGw</a>
6	Life cycle of Mosquitoes	<a href="https://www.youtube.com/watch?v=mroLFTPhL90">https://www.youtube.com/watch?v=mroLFTPhL90</a>
7	Permanent slides of chick Embryo	<a href="https://www.youtube.com/watch?v=Vky8QN63eVE">https://www.youtube.com/watch?v=Vky8QN63eVE</a>
<b>B.Sc. II (Sem IV)</b>		

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# Shri Vitthal Rukhmini College, Sawana

## Department of Botany

### Projects 2020-21

#### 1) Seed collection

Ex-situ conservation of plant genetic resource can be achieved through seed banks. The main objective behind this project to Conservation of germ plasma of local vegetables, fruits, crop, medicinal plants as well as staple food varieties available in the area and create interest and awareness among students about Ex-situ conservation of plant genetic resources. During the period of 2020-21 under this project students collected near about 50 types of seeds and preserved in botanical seed repository

Sr. No	Name of students	Collected seeds
1	Abhijit Sanjay Ranvir	<i>Senna obtusifolia</i>
2	Poonam santosh chavhan	<i>Tectona grandis</i>
3	Aarti Dipak Panse	<i>Dhatura stramonium</i>
4	Rohit Yashwantrao Deshmukh	<i>Piper longum</i>
5	Balaji ashok jadhav	<i>Abrus precatorius</i>
6	sudesh ramesh devsarkar	<i>Semicarpous anacardium</i>
7	Jay vishwambhar jadhao	<i>Abutilon indicum</i>
8	VAISHNAVI DIGAMBAR JADHAO	<i>Pisum sativum</i>
9	Punam Gajanan payaghan	<i>Cajanus cajan</i>
10	Vishal Datta Jadhav	<i>Vigna radiata</i>
11	Subodhkamble	<i>Ricinus communis</i>
12	Nikita ganesh vajirabade	<i>Terminalia chebula</i>
13	Anjali Balaji Vajirabade	<i>Terminalia bellerica</i>
14	Akash Uttam Bhise	<i>Zea mays</i>
15	Nikita Prakash Dhore	<i>Carica papaya</i>
16	Shubham Rahul Bhaware	<i>Mangifera indica</i>
17	Aditya Pundlik Wadekar	<i>Pennisetum glaucum</i>
18	Abhishek Sudhakar jadhao	<i>Anacyelus pyrethrum</i>
19	Sagar Santosh Pawar	<i>Coriandrum sativum</i>
20	Manisha bhalchandra gaykwad	<i>Acacia nilotica</i>
21	Shubhangi yashwantrao deshmkh	<i>Butea monosperma</i>
22	Prajyot naik	<i>Trigonella foenum-graecum</i>
23	Ankita Digambar Gaikwad	<i>Spinacia oleracea</i>
24	Abhinav Dattrao Narwade	<i>Momordica charantia</i>
25	Faizan Rafik Sheikh	<i>Citrus lemon</i>
26	Divya Gunaji Pate	<i>Cucumis sativus</i>
27	Shital Mangilal Rathod	<i>Acacia nilotica</i>
28	Ravikiran Sunil Hajare	<i>Cucumis sativus</i>
29	Durgesh Gangaram Rawte	<i>Brassica juncea</i>
30	Nausheen khanam shaikh Nisar	<i>Gossypium herbaceum</i>

# Shri Vitthal Rukhmini College, Sawana

## Department of Botany

B.Sc -III (SEM-V)

### LABORATORY EXERCISE

#### Part 1: Plant Physiology: Major experiment

#### Experiment Number 1

**Aim:** To study the effect of temperature and organic solvent on permeability of plasma membranes.

**Material required:** Water baths, Thermometer, Distilled water, large beetroot, Cork borer size no. 4 or 5

**Chemicals:** Alcohols and methanol.

**Principle:** Living beetroot cells are suitable materials to demonstrate the effects of high temperature and chemicals on the permeability of cell membranes. Beetroot contains a red pigment called anthocyanin, which is located in the large central vacuoles of the beetroot cells. As long as the cells and their membranes are intact, the anthocyanin will remain inside the vacuoles. However, if the membranes are damaged, anthocyanin will leak out and produce a red colour in the water surrounding the beetroot. The intensity of red colour in the water can be used to assess the degree of damage to living membranes by different factors. High temperature and organic solvents e.g., alcohols, denature membrane proteins and increase the fluidity of membrane lipids. Organic solvents at high concentrations can also dissolve lipids. Acetone, alcohol and chloroform are organic solvents that severely destroy membranes.

#### Procedure: (For high temperature)

1. Use a cork borer to cut cylinders of tissue from a beetroot.
2. Cut the cylinders of beetroot into thin discs of about 3 mm thick.

  
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31	Samadhan laxman jamdhade	<i>Abolmoscus esculantes</i>
32	Ashwini kondbarao ukande	<i>Capsicum annum</i>
33	Pallavi Dilip Gaulkar	<i>Allium sativum</i>
34	Aditya devidas daware	<i>Cucurbita maxima</i>
35	Tejas Ramesh Rewanwar	<i>Lycopersion lycopersicum(tomato)</i>
36	Asha chandusing jathawa	<i>Moringa oleifera</i>
37	Shivam Dnyaneshwar Gore	<i>Sesbania grandiflora</i>
38	Hazequa Firdous	<i>Hibiscus sabdarifa</i>
39	Punam Anil Devsarkar	<i>Rumex acetosa</i>
40	Mohammad Aadil	<i>Vigna sinnsis</i>
41	Aarti Dipak Panse	<i>Phaseolus vulgaris</i>
42	Pratham Digambar Deshmukh	<i>Asparagus racemosus</i>
43	Muhammad BILAL Muhammad Hanif gauri	<i>Tamarindus indica</i>
44	Ujawaldip pandit Kamble	<i>Sesamum indicum</i>
45	Vaishnavi Apparao Ade	<i>Pennisetum glaucum</i>
46	Vaishnavi kailas paikarao	<i>Canna generalis</i>
47	Viren Tryambak Chakranarayan	<i>Glycine max</i>
48	Vivek Sanjay Pande	<i>Trigonella foenum</i>



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Department of Physics

Session-2020-2021

Practical You Tube Link

PHYSICS SEM-1

Sr. No.	Name of Experiment	You tube Link
1	Determination of coefficient of restitution for inelastic collision.	<a href="https://youtu.be/cgP2-dYtef0">https://youtu.be/cgP2-dYtef0</a>
2	Moment of inertia of fly wheel.	<a href="https://youtu.be/9agoJRCnu4w">https://youtu.be/9agoJRCnu4w</a>
3	Study of compound pendulum.	<a href="https://youtu.be/N7_4nX-CQgc">https://youtu.be/N7_4nX-CQgc</a>
4	Modulus of rigidity by Torsional Pendulum.	<a href="https://youtu.be/Qq-XWf2r6-g">https://youtu.be/Qq-XWf2r6-g</a>
5	Acceleration due to gravity by Kater's pendulum.	<a href="https://youtu.be/tFPfXe2ysHE">https://youtu.be/tFPfXe2ysHE</a>
6	Young's modulus by cantilever.	<a href="https://youtu.be/4KV08s-qd2A">https://youtu.be/4KV08s-qd2A</a>
7	Young's Modulus by bending of beam.	<a href="https://youtu.be/UPv09L8trz0">https://youtu.be/UPv09L8trz0</a>
8	Modulus of rigidity by Maxwell's needle.	<a href="https://youtu.be/TdhpBSwA95g">https://youtu.be/TdhpBSwA95g</a>
9	Determination of Surface tension by Jager's method.	<a href="https://youtu.be/jIjZSAeCqHs">https://youtu.be/jIjZSAeCqHs</a>

  
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## PHYSICS SEM-II

Sr. No.	Name of Experiment	You Tube Link
1	Measurement of low resistance by potentiometer.	<a href="https://youtu.be/58Klcnx2soc">https://youtu.be/58Klcnx2soc</a>
2	To determine high resistance by leakage method.	<a href="https://youtu.be/8KbPLRCPhZU">https://youtu.be/8KbPLRCPhZU</a>
3	Verification of laws of capacitances.	<a href="https://youtu.be/0LWNWNt4hiI">https://youtu.be/0LWNWNt4hiI</a>
4	Study of transformer	<a href="https://youtu.be/JnTV0O2D-qo">https://youtu.be/JnTV0O2D-qo</a>
5	Verification of Kirchoff's law, using electrical network.	<a href="https://youtu.be/bWLDpsjSj0M">https://youtu.be/bWLDpsjSj0M</a>
6	Verification of Maximum power transfer theorem.	<a href="https://youtu.be/Fb_vDMet_Y">https://youtu.be/Fb_vDMet_Y</a>
7	Verification of Thevenin's theorem.	<a href="https://youtu.be/IBjdVAK4QxM">https://youtu.be/IBjdVAK4QxM</a>
8	Verification of Norton's theorem.	<a href="https://youtu.be/x7QRAM5w1K8">https://youtu.be/x7QRAM5w1K8</a>
9	Verification of Milliman's theorem.	<a href="https://youtu.be/7cJLAL6bZ9Y">https://youtu.be/7cJLAL6bZ9Y</a>

## PHYSICS SEM-III

Sr. No.	Name of Experiment	You tube Link
1	To determine characteristics of CE transistor	<a href="https://youtu.be/4ZlcbPcMpCA">https://youtu.be/4ZlcbPcMpCA</a>
2	To determine characteristics of FET	<a href="https://youtu.be/4xKSh4VFF-U">https://youtu.be/4xKSh4VFF-U</a>
3	To study FET as a voltmeter	
4	To study Zener regulated power supply	<a href="https://youtu.be/Da39JHhNWqk">https://youtu.be/Da39JHhNWqk</a>
5	To study phase shift oscillator	<a href="https://youtu.be/E0E1OqBUu78">https://youtu.be/E0E1OqBUu78</a>

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6	To determine characteristics of p-n junction.	<a href="https://youtu.be/4wKv-DKltB8">https://youtu.be/4wKv-DKltB8</a>
7	Study of OP AMP as an inverting amplifier	<a href="https://youtu.be/n62S8Ft3PTg">https://youtu.be/n62S8Ft3PTg</a>
8	Study of OP AMP as noninverting amplifier	<a href="https://youtu.be/n62S8Ft3PTg">https://youtu.be/n62S8Ft3PTg</a>
9	Study of OP AMP as subtractor	<a href="https://youtu.be/AW4Kjp-KaLs">https://youtu.be/AW4Kjp-KaLs</a>
10.	Study of OP AMP as adder	<a href="https://youtu.be/AW4Kjp-KaLs">https://youtu.be/AW4Kjp-KaLs</a>

#### PHYSICS SEM-IV

Sr. No.	Name of the experiment	You tube Link
1	To determine the wavelength of monochromatic light by Newton's rings.	<a href="https://youtu.be/Zih6083n4x0">https://youtu.be/Zih6083n4x0</a>
2	To determine the wavelength of monochromatic light by plane diffraction grating.	<a href="https://youtu.be/p8cyO76gxZI">https://youtu.be/p8cyO76gxZI</a>
3	To find the number of lines per centimeter of the given grating.	<a href="https://youtu.be/AcF7mD-MnuM">https://youtu.be/AcF7mD-MnuM</a>
4	To determine the resolving power of plane diffraction grating.	<a href="https://youtu.be/0FxfmBLN31s">https://youtu.be/0FxfmBLN31s</a>
5	To determine the wavelength of laser light.	<a href="https://youtu.be/Nfr9yI4qW7c">https://youtu.be/Nfr9yI4qW7c</a>
6	Determination of refractive index of a prism by spectrometer.	<a href="https://youtu.be/JvVOaqej1II">https://youtu.be/JvVOaqej1II</a>
7	To determine the resolving power of prism.	
8	Determination of solar constant	<a href="https://youtu.be/Nh2H5JOxmQ">https://youtu.be/Nh2H5JOxmQ</a>


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### PHYSICS SEM-V

Sr. No.	Name of Experiment	You Tube Link
1	To study phase shift oscillator.	<a href="https://youtu.be/hmSvO5nWIMQ">https://youtu.be/hmSvO5nWIMQ</a>
2	To study Wein bridge oscillator.	<a href="https://youtu.be/nPPAisul4EE">https://youtu.be/nPPAisul4EE</a>
3	To study Hartlay oscillator.	<a href="https://youtu.be/0hJ2Hpm8oj8">https://youtu.be/0hJ2Hpm8oj8</a>
4	To study Colpits oscillator.	<a href="https://youtu.be/effCoGiuYT8">https://youtu.be/effCoGiuYT8</a>
5	Study of monostable multivibrator.	<a href="https://youtu.be/eWMsUkLQIZc">https://youtu.be/eWMsUkLQIZc</a>
6	Study of astable multivibrator.	<a href="https://youtu.be/imwlUwqFt4">https://youtu.be/imwlUwqFt4</a>
7	To study characteristics of Zener diode.	<a href="https://youtu.be/kqUTjs598-0">https://youtu.be/kqUTjs598-0</a>
8	Study of LED characteristics.	<a href="https://youtu.be/suLftpChtfc">https://youtu.be/suLftpChtfc</a>
9	Study of characteristics of Laser.	<a href="https://youtu.be/BKVMw4jpDZw">https://youtu.be/BKVMw4jpDZw</a>

### PHYSICS SEM-VI

Sr.No.	Name of Experiment	You tube Link
1	To study hysteresis losses in transformer core and plot B-H curve.	<a href="https://youtu.be/x9eoN4sIbvs">https://youtu.be/x9eoN4sIbvs</a>
2	To study characteristics of Photo diode.	<a href="https://youtu.be/y3uFMV-B488">https://youtu.be/y3uFMV-B488</a>
3	To study Zener regulated power supply	<a href="https://youtu.be/Da39JHhNWqk">https://youtu.be/Da39JHhNWqk</a>
4	Determination of Band gap energy of a pn junction / zener diode	<a href="https://youtu.be/7LeH6OSFTJ0">https://youtu.be/7LeH6OSFTJ0</a>
5	To study Characteristics of Photocell	<a href="https://youtu.be/6Z-oRvk8bhQ">https://youtu.be/6Z-oRvk8bhQ</a>

  
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# INAUGURATION OF ZOOLOGICAL SOCIETY

2020-21

On dated 30<sup>th</sup> September 2020 in Department of Zoology Shri Vitthal Rukhmini Mahavidyalaya Sawana had organized inauguration of zoological society 2020-21

The program had been started at 11:00 am. On this occasion Dr. Hemant S. Mahalle Principal Shri Vitthal Rukhmini Mahavidyalaya Sawana was chairperson and Prof. A.K. Wghamare was chief guest, head of the department of zoology Dr. P.W. CHAUDHARI, President of zoological Society teachers, non teaching staff, Research scholars' were present.

The anchoring was done by Ms. Rucha Bhat and Ms. Pragati Jena student of M.sc. part II. The program had been started with lamp lighting ceremony. Then Dr. Surel Zod felicitated by Mr. A. N Khade , Prof. A.K. Wghamare felicitated by Dr. P.W. CHAUDHARI, Dr. P.W. CHAUDHARI felicitated by Ms. Suvarna Rathod , Mr.A.N. Khade felicitated by Mr. Rajratana Kamble, all teachers, all non teaching staff had been welcome. The Dr. Mahalle and Dr. Zod were declared Zoological society 2020-21. Then Ms. Bhavana Tayade From Dept. of Marathi introduced the chief guest of this program Prof. A.K. Wghamare Head Dept of Economics Akola.

The chief guest of the program Prof. A.K. Wghamare had been given informative lecture on the topic "**Importance of wild animals on Human Benefits**". In world how science get advanced and developed for human welfare was discussed by Prof. A.K. Wghamare with students. Prof. S.N. Thakre speaks about Wild animal and Human Conflict. Respected Principal explain is useof wild flora in medical as well as other field and how it improve the old techniques and methods in medical biology. Then Inaugurator of the program Dr. Surel Zod was interacted with the teachers . The last part of the program was vote of thanks had been done by Mr. Anil Khade Incharge of Zoological Society for session 2020-21.

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## Botanical Society 2020-21

Department of Botany has an active Botanical society. The main aim behind forming an botanical society to make students more interactive and vocal by giving responsibility such as organise events like Guest lectures, workshops, institutional and industrial visits, botanical tours, filedwork, college seminars, posters presentation and quiz competition.

BOTANICAL SOCIETY

## Society membars



1. Sneha Bovindwad- President
2. Vaishnavi Kakde - Vic-President
3. Pallavi Gautkar - Secretary
4. Ranjit Kadam - Gen.Secretary
5. Suraj Chaware - Joint. Secretary

1. Sneha Jathawa - President
2. Pooja Gore - Vic-President
3. Vidhy Hatele - Secretary
4. Pratham Kuril - Gen.Secretary
5. Vaisnavi Raut - Joint. Secretary
6. Aditya Wadekar - Joint.Secretary

1. Priti Kadam - President
2. Subhangi Deshmukh- Vic-President
3. Pooja Deshmukh- Secretary
4. Danish Khan - Gen Secretary
5. - Joint. Secretary

  
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Remaining Meeting Time: 0h:43

2 people entered the waiting room

SVR COLLEGE

List of Activity run by botanical society during academic year 2020-21 (COVID-19 Pandemics)

Sr.No	Activities
1	Online State level " Essay competition" on occasion of world environmental day
2	Guest lecture on Perspectives in biological nitrogen fixation
3	Exhibition of vermicompost facility and sell

  
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Assignment 1

Posted May 2, 2020



## Unit 4&5



Quiz 1

Posted Jun 8, 2020



## Laser



Fiber optics

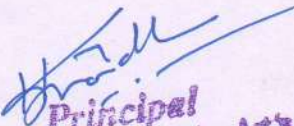
Posted Jun 8, 2020



Laser notes

Posted May 2, 2020



  
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Sawana Tq. Mahagaon



## Teachers



Pankaj Chaudhari



Anil Khade



## Students



Unknown user



Aarti Shukla



Abhijeet Bhaware



Abhishek Deshmukh




Stream



Classwork



People

  
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Sawana Tq. Mahagaon

# Teachers

Do+



Anil Khade



Pankaj Chaudhari

⋮

# Students

Do+

⋮



AKSHAY MESHRAM

⋮



Abhinav Narwade Patil

⋮



Ajay Khade


⋮

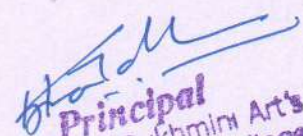


Anjali gaikwad

⋮

  
Stream

  
Classwork

  
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Sawana Tq. Mahagaon

People

TEACHERS



Pankaj Chaudhari



Anil Khade



Students



Aadil Nagani



Abhishek Dongare



Akash Bhise



Akshay Rathod



*Handwritten signature*  
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Sawana Tq. Mahagaon

# Teachers



Pallavi Narwade



GAURAV KALE



# Students



Dayanand Kamble



Dhanashree Pawar

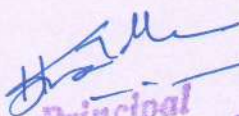


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## Assignment 1

Posted May 2, 2020



# Unit 4&5



## Quiz 1

Posted Jun 8, 2020



# Laser



## Fiber optics

Posted Jun 8, 2020



## Laser notes

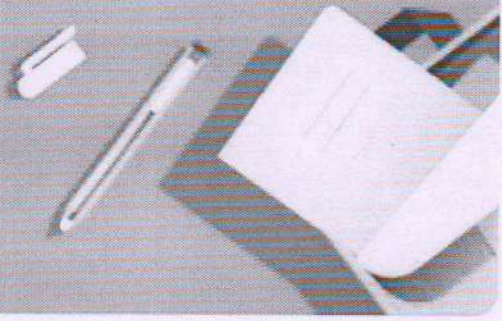
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New assignment: Quiz 1

Jun 9, 2020



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New material: Fiber optics

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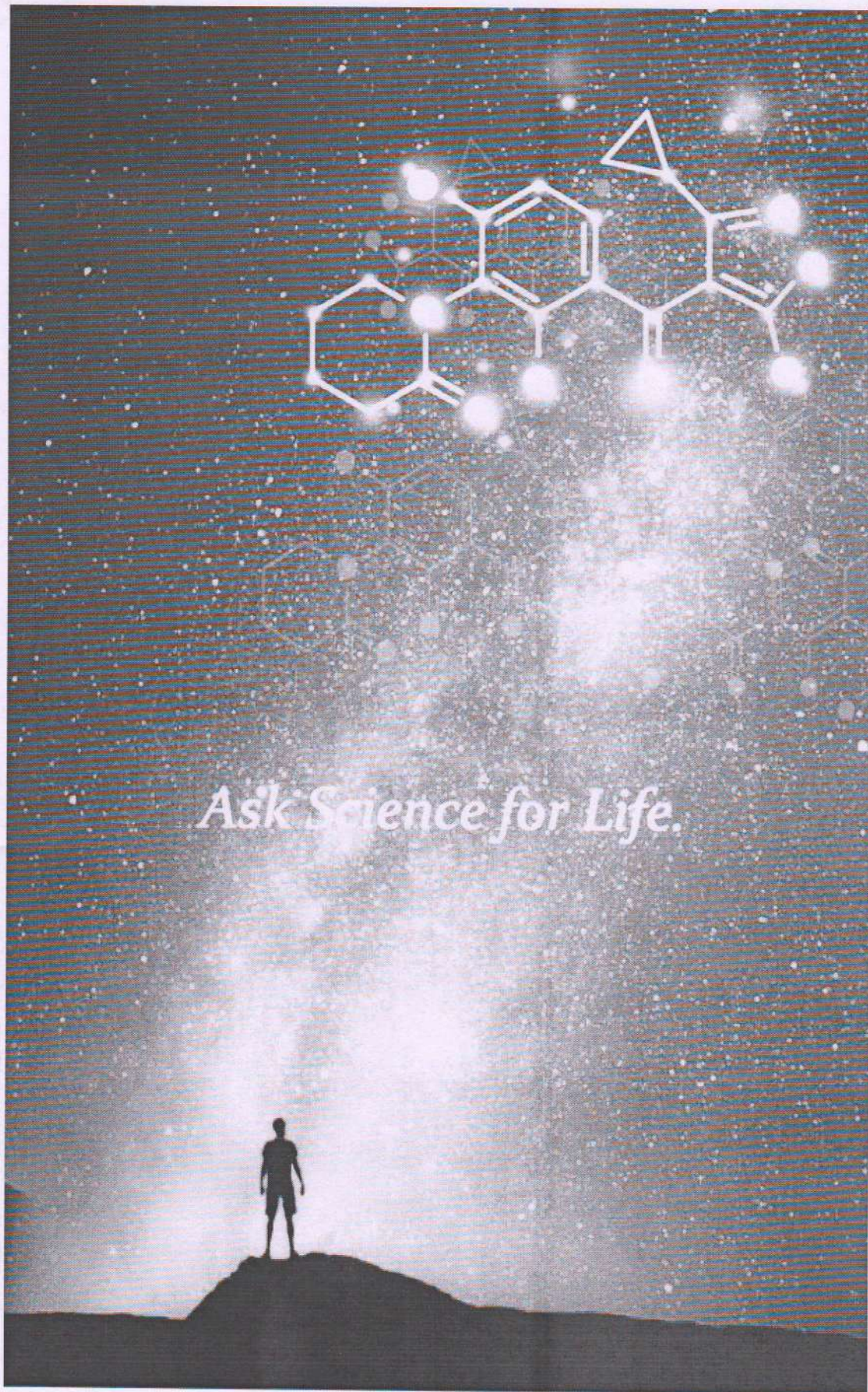
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