

GOVERNMENT DEGREE COLLEGE (MEN)

ACCREDITED BY NAAC WITH B++ (CGPA 2.90)

Srikakulam - 532001, Andhra Pradesh, India



Department of Physics

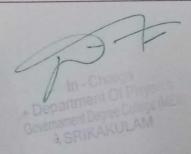
Brainstorming Session

Date and Time	08.12.2023	
Class	III B.Sc (MPCS)	
No.of students participated	27	
Name of the Activity	Brainstorming Session	
Title	When you sit at a campfire, how do you get heat?	
Objective	The objective of a brainstorming session focused on the topic of "When you sit at a campfire,how do you get heat?" could be to explore, discuss, and generate ideas and hypotheses related to this question. It promotes Critical Thinking,Engage Curiosity,Highlight Scientific Method,and Promote Further Study.	
Teacher Activity in this session		

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In-Charge ∠ Department Of Physics Governament Degree College (MEN) -SRIKAKULAM

	 3. Encourage Divergent Thinking Prompt students to think outside the box and consider unconventional solutions or perspectives. Encourage them to push the boundaries of their creativity. 4. Emphasise Learning: Remind participants that the goal of the session is not necessarily to arrive at a definitive answer but to promote curiosity, critical thinking, and a deeper understanding of scientific principles.
Student Activity in this Session	1. Group Sharing: Students in the groups can discuss and refine their hypotheses based on the input from their peers. 2. Debate and Discussion: Organise a debate where students can argue for or against the idea that air forms a shadow. Assign some students to argue in favour of the hypothesis and others against it. This encourages critical thinking and helps students consider different perspectives. 3. Record Ideas: As ideas are generated, write them down on a whitepaper. Ensure that all ideas are captured without judgement or evaluation at this stage.
Documental evidences	https://drive.google.com/file/d/1MQhl0rBWN7iyRH-wE6io_SA W0J24QLA_/view?usp=drive_link
Name of the Lecturers who planned & conducted the activity	Sri.M.V.Satyanarayana Sri R.Ravi kumar Sri B.Mohana Rao Dr.GVS Jayapala Rao



Date: 8-12-2023 Day : Friday.

Class : I MPCS Senicster: V.

Brain Storning Session: 12:40 PM to

TOPIC: when you sit at camp fire, how you get heat?

Aas. Heat is felt by body when we sit at camp fire due to "thurnal radiation".

-> In how many wars you tranfer heat:

And Fleat is transferred in three warys

- -> Conduction
- -) Convection
- -) Radiation

-> what is conduction of heat; - Explain it? And Transfer of cheat) with direct contact is known for conduction. Since it occurs through the collision of atoms of or molecules which are neighbourd

with each other.

-) Generally these occur nostly in liquid Solids rather than gasts.

-> what is convection of heat; Explain it? As Teanfix of heat by a molecular motion et fluid Pliancid (or) gas]. It is occured. with direct contact of fluid.

-> what is radiation of heat; Explain it? Any The process where transfer of heat occurs in the form of waves; that may be absorbed, explicted or +ransmitted In genual their process of transfer heat helps en heating the surface of the earth.

-> Is air a thurnal conductor or Insulator. Air is an Insulator.

As it is a gaseous substance. Due to The distance between the molecules it privents transfer of heat. So we can define it as a poor conductor of heat.

Name	FIL tt No:	Group	Signature		
K. Mohan	2122001050019	MPCS	K. mohan		
P. Dileep	2122 0010500 35	MPCS	p. Delup-		
K. Maheswar?	2122001050017	Mpcs	K. Maheswar		
Ch. Sri Qajya Lelishmi	2122001050008	Mpcs	Ch. Sri Rejyaldesh		
Paidi Devika	2122001050031	MPCS	Denkaraid		
CONELUSTON					

Group : I'M MPCS Date: 8-12-2023 Time: 12:40 PM to 1:20 PM. Semester: Z. Day : Friday) when we sit near a camp fixe, why heat is Kansferred only through vadiation. why not conduction and convection. For Radiation we require no medient so we get theat through it. For concluction we require medium for heat transfer Here we have the as medium, but air is an insulator so no transfer through conduction For Convections na require fluid or gas, but here when the campfire obets up The air above it gets heated up. which gives ruic en density. So that the bist above it thatler not the 6. CC neighbouring One. Hence we can't feel it by standing beside. These are the reasons for it

*

CONCLUSION.

This Brain Storming, busion helped in boosting up the memory.

It includes involvement and interaction with co-team members

Intered in Joining for the further bersio -Appreciation to the Jaculty [Su] for conduction This doct of activities

Name	on HIDE	Group
P. Devika	2122001050031	TIBSEMPCS"
Ch. Sri Rajyas Lakshnii	21220010100008	ITBSC MPCS
K. Maheswari	212200 10 500 14	AT BSC MPCS
P Dileep	212200 1080035	IT BSC MPCE
K. Mohan	21220010500191210	III BSC MPCS

Time: 12: 80 pm > 1: 20 pm.

Date: 8-12-2023 (Friday)

Class: III MPCs

Semester: I

Brain Storming Session

Topic: When you sit at campfire, How you get heat?

- 1. In howmany you transfer heat?
- 2. What is conduction of heat and explain?
- 3. What is Convention of heat and explain?
- 4. What is radiation of heat and explain?
- → When sit by campfire, most of the heat are recieving from the fire does not not come from hot air. It comes from thermal radiation. Generally there are three ways that heat can travel.
- 1. 3 Types transfer heat.
 - * Conduction
 - * convention
 - * Radiation.
- 2. Heat flows from hoter body colder body is called conduction. It is also called thermal equilibrium.
- 3. Convention is defined by transfer of heat between two bodies by movement of gas of fluid.
- 4. Transfer of heat energy from a hot body to cold body, directly, Without heating the medium between two bodies.
- B. Does air is thermal conductor or Insulator?

 Air o is a good insulator Because sisis a manufacture of the second of the secon

Air a is a good insulator, Because air is a mixer of gases. It resists heat transfer to Some degree.

6. Why the heat does not transfer conductor?

the heat

Aix is a Poor thermal Conductor, you would not recieve much heat from the Campfire via Conduction counless you Stick your hand in the fire.

Conclusion:

-> We know about different types of heat transformations.

-> We know about Conduction Convection Radiation.

-> We newly know about air is insulator

Signatures:

K. dakshmi perasanna

Names H. + No Groups Signatures S. Pavan Kumar

2122001050037 11 MPC

Hpwushottam 2122001057015 111 mpcs

2122001050021 III MPLS

S. Pavan Kumar

t. prasama.

Brain storming Session

Jopic ig Nuhen you sit at camptione, how you get hat? A) Radiation

1) In how many ways you transfer heat?

A) They one theree ways 1) Conduction

2) Radiation

3) Convention

2) what is conduction of heat and explain?

- A) conduction manys they passes of energy from one Particle to another particle being indirect contact with each other. Exit growing of clothes
- 3) what is convention of heat and explain?
- A) the moment of fluid molecules from higher temperature oregion to lower temperature. Ex: Boiling of water.
- 4) what is Radiation of heat and explain?
- A) The heating of the courth by the sun is an example of transform of energy by Radiation.
- 5) Dogs Ain is as thermal conductor (or) Ansulation?
- A) Aion is a Grood Ansulation, because it is a gaseous substance, therefore its spared out molecular configure resist heat torangten to some degonee.

Conclusion:

- 1) This session makes fun with Friends.
- 2) This session can acomplish the Penspective (OV) way of thinking of one Person to other Persons.
- 3) It will helps to testing own booin.
- 4) It is very joy tul to seasich in Grougle and tind answers.

P. Marasa

p. Neeraga

J. Svavane

N. Mamortha

B. Hagitha

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Many too-bornes of succession

J- Syavare

N. Mamathe

B. Haritha

08.12-2023 Friday

closs: III MPCI Semesten: V

Brainstorming session Time! 12:40pm to 1:20

Topic: when you sit at campfine, how you get heat?

1 to mil- Radiation and Ain acts as thenmal conductor.

1. In how many you transfer heat?

AM! Three processes: 1) conduction 2) convention 3) Radiation

2. what is conduction of heat and explain?

Aw: The transfer of thengy through physical contact between matters, en: see cube when we hold in our

3. cuhat is convention of heat and Explain?

only the transfer of heat through fluids causing by molecular motion. **! Boiling of water.

4. ruhat is radiation of heat and Explain?

Aus?. Energy that triansmit. in the form of rays on waves of particles. ex:- sunlight.

5. Does Ain is a thenmal conduction on insulation) Au. Thermal conductor, insulator

conclusion!

6.

* Due to this session we know the facts about. transfer of heat.

It is helpful to know the conduction, convention, nadiation

* We know the use of Ain in transfer of heat etc.

Name	H.T. NO	Ginoup	signature
B-Sirisha	2122001050003	MPCS	2 B-Sirisha
5. Dhilleswari	2122001050038	MPCS	5. Phillesware
N. Sandhyarau		where	N. Sandhyarani
K. Ganesh	2122001050020	Mpcs	K. Geneth
a. Sudsepokumag	2122001050012	MPCS	G. Buder
N. Neelachalam	2122001050027	Mpcs	N. Neela
and the second			

08/12/2023 Friday

class: III MPCs semester: 2

Brain storming session

D'en you sit at campfire, how you get heat?

D'en due to radication, we get heat.

because we are not contact with compfire.

we sit for from compfire, transfer heat from highly temperature coumpfire to low temperature of our bodies.

In how many you transfer hear!

B) 3 works, conduction, convention, sudiation.

2) what is conduction of heat and sondains

A transfer of heat from high temperature

to low temperatury to get eavilibrium or water when two bodies one contact with each other.

3) what is convention of heat & delarg

I tromper of heat blue two bodies by

coverents of moving on their to get equillibria

e, what is modistron 4 heat & soulain.

A) transfer at heat from & high temperature, bodies.

when bodies are not themos physically contact with each other. 5) god air is then mal conductor or insulate A) . Conductor. constrain to It is vory upon. (2) we know sifterent types of heat transformations. 3) we know our 12 insulate, @ B. Thansi 2122001050004 MRs B. Thangi 3 I. Bhumila 2122001050005 mpes. B. Bhurrith B. Bhurraka (3) k. Aditya 2122001050018 a) Tysteen Yatheen 2122001050044 IT od may Typother 2122001050011 Til mes "parger 5x Gr. Rogegword

Photo Gallery:





