

**KUMARI ARIVIAL PERAVAI
YOUNG SCIENTISTS PROGRAM 2012-2013
TEAM MEETS**



2-12-2012 PARVATHIPURAM- Jay Tee Designer Tiles

BLUE TEAM

Shri.M.JOHNRAVIKUMAR Coordinator,
Ms.A.Beula Resource Person,
Ms.Gayathri Guide Teacher

GREEN TEAM

Mrs.T.JAYASELVAKUMARI Coordinator
Er.S.INGERSOL Scientist

Mullanchery M.VELAIAN



3-12-2012 MARTHANDAM

Red Team-Prof.R.Thiyagaswamy's Residence

Ms.R.R.Rekha Resource person
Shri.D.Samraj Counsellor
Shri.R.Sathiskumar (Guest)
Ms.SheebaRathi Guide Teacher

Maroon Team –PWDS Women's Hostel


Shri.L.Edwinsam Coordinator
Shri.P.Murugan Scientist
Ms.Shunmugapriya Guide Teacher
Shri.P.Gopalan Counsellor

Yellow team-Ansar Manzil

Shri.P.Balakrishnan Coordinator
Ms.R.R.Rekha (Guest)

Reports

1. S.Fathima Shahana
2. Sooraj.M.S
3. A.Annlin Steffy
4. Abiulin V.J.Lazhya
5. J.S.Anandhu Krishna
6. J.Livee
7. J.Dharan
8. S.Anjali



1.S.Fathima Shahana Yellow [Leader]

"We need not fear shipwreck when God is the pilot"

The yellow team meet was held on 3rd December, 2012 at Ansar Manzil, Marthandam, from 9:00am to 3:00pm. Sharply by 9:00am, everyone assembled in the hall where we were given tea and juice. I, S.Fathima Shahana, the leader of yellow team, was the compere. Abishek.S.Peter, the convenor of yellow team welcomed the gathering. Then was the introductory address by Mr. Balakrishnan, coordinator of yellow team, where he listed out the sequence of programmes to be held there after. He also showed us the notices prepared by the former young scientists. These notices were distributed to people who lived in the coastal areas.

Next was the paper cutting verification. Every student from our team, yellow, showed their paper cuttings. I too showed mine. Sir was happy as everyone had cut the newspapers. Followed by this was the report evaluation where, certain students were given the opportunity to read their reports. Abishek.S.Peter took up the first chance of reading the report. I could find a very good observation skill in him. Then I was given the opportunity to read my report. Sir appraised the style of my writing. Following me, Anish read his report, and then was Sivaraam, A.M.Akhil, Benin and Akhil.S.Nair.

Our coordinator asked us to specify the points they had told rather than appraising it. As every student was allotted with various names of crops to present on a day, we were asked to do so. Jebisha first explained about paddy cultivation. She emphasized that paddy grown up to six months and that we can even cultivate it for just 90 days. When we cultivate it, we get grains, in which the husk has been removed to obtain rice.

By 11:30am, Smt. Rekha, resource person of red team also joined us in the meeting. She said that the objectives of the Kumari Arival Peravai is to develop Observation skill, Communication skill, Reading ability, Public speaking skill, Understanding skill, Report writing skill, News reading and collecting interest and so on. She also mentioned about our preparatory meeting which is to be held on 8th December, 2012. She stated that there are overall 44 villages close to the coast in Tamil nadu and that we will be visiting some of them within a few days. She said that as we visit these coastal areas we will come to know some different species of fishes, different types of soil, the lives of the villagers living in coastal areas and we also will be looking at the A.V.M. Channel. It stands for Anandan Victoria Marthandavarma channel where Anandan is God and Victoria and Marthandavarma are the queen and the king who ruled in the 1960s respectively. This A.V.M Channel had been built for transportation purpose from Kollam to Kanyakumari. Those days

these coastal areas were clean. Then she emphasized the importance of December 3.

Jupiter encloses the Earth and that we can also see it after the sunset. S.M.S was invented by the British on December 3, 1992. The first message 'Merry Christmas' was also sent from a personal Computer to a mobile. According to the 2011 census, 87% of the world population are using mobiles and in India 75% are using them. That may be around 91.92 million people. China was discovered to have 102.37 million people using mobiles, i.e. 76% of its population. The world's largest user of mobiles is America as it is highly based on technologies and 105% are using it. According to the 2011 census, 9.6 lack million around the world are sending S.M.S. In 2012, it is expected to be 9.6 lack million as the year's census would be calculated only in the month of December.

December 3rd also marks the incidence at Bhopal, Madhya Pradesh. It is in this date of 1984 that, methyl isocyanate leaked from a Union Carbide pesticide plant in Bhopal, India, which killed more than 3,800 people outright and injured 150,000-600,000 others (some 6,000 of whom would later die from their injuries) and is one of the worst industrial disasters in history.

She then mentioned about the notice to be prepared for the coastal visit. She said that, certain topics will be distributed to every team to prepare and that should contain a maximum of 10 captions. Then, our coordinator had shown us a video which was taken during their Nelveli visit, the previous year. Then was the time allotted to have our lunch which was yummy.

After our lunch, Alvina Cynthia presented about tobacco cultivation. She stated that the tobacco, otherwise known as the nicotina tobacco is widely grown in the western hemisphere of the earth. It was in the 6000BC that the Americans started cultivating it. It was once gifted by them to Columbus. It helps in healing diseases and wounds. In the late 1600s, it was used instead of money. She emphasized that each plant would have a maximum of 20 leaves in it. The colours may vary from yellow to green. It is said that the yellow leaves of tobacco are of high quality. It may produce flowers of pink and white colours. She included that tobacco has been used widely by the people in the cold regions. Her presentation was really informative.

Following her was a presentation by Jaffrin Jisha on Banana cultivation. She started by telling the uses of banana leaves. This can be used for weaving baskets; it is a nice food for cattle, etc. She stated that it is a perennial herb that may take up to nine months to grow. It produces a bunch of bananas and decays. It is mostly grown in humid areas. She added that each banana is finger shaped. Our Kanyakumari District has varieties of banana species. Her presentation was really effective.

Then was a presentation by Jeniba on Tapioca cultivation. She stated that its native is Brazil. The people of Kerala eat tapioca with fish curry as delicacy. It needs a well drained soil of 5.52PH. It has been used for making biodegradable plastic bags and so on. It is rich in carbohydrates which are of 545 calories. Her presentation too was informative.

Then Jeshiba was given a chance to present about Paddy cultivation. She emphasized that this crop originated from Orissa. It is usually grown in moist temperature.

By this we wound up the meeting with the vote of thanks delivered by Sivaraam in English and by Benin in Tamil.

This meeting helped me a lot. I could mingle with my team members and we could understand each other better. I thank the KAP for this opportunity.

Thank You

FOOD AND AGRICULTURE-CHALLENGES **YOUNG SCIENTISTS PROGRAMME 2012-13**

YELLOW TEAM MEET

3rd December [9:00am-3:30pm]

at
Ansar Manzil,
Marthandam

Programm

Comp airing - **S.Fathima Shahana**, *Leader of yellow team*

9:00am - Assembling

9:15am - Welcome Address : **ABISHEK.S.PETER**, *convenor of yellow team*

9:20am - Introductory Address

Shri.P.BALAKRISHNAN, *coordinator of yellow team*

9:30am - **paper cuttings verification**

10.00 AM - **Previous Reports Evaluation**

10:30AM - **presentation [Crops Cultivation]**

11:15am - Theme Lecture by : **Smt.R.R.REKHA**, *resource person*

11:30 am - **Review of the Research Topic**

12:45 pm - Lunch Break

1:30 pm - **Discussion about the meeting on 8th December**

2:00 pm - Preparation for Coastal Study

2:30 pm - **Notice to be prepared**

3:00 pm - **Allotment of Agriculture Scientists**

3.30 pm - Vote of Thanks, **Sivaraam**, *member of yellow team*

Prepared by: **S.Fathima Shahana** Team leader

Approved by: organiser of Kap




2. Sooraj.M.S Green Team

The first green team meet was held at Grace Complex, Parvathipuram the meeting was scheduled at 1:30pm. I arrived there at 1:30pm and soon some of the guide teachers and members of the blue team also arrived. I was surprised by this and then I came to know that the blue team meet was also held here. Then Scientist Ingersol sir arrived. Then we had a really interactive session with him. He gave us notes regarding the topic:

FOOD FOR SURVIVAL & INDIAN AGRICULTURE

It was a really interesting topic than I had imagined. His interaction with us was really great and inspiring. His points on the topic from a scientists point of view was very good. His main tips were Public distribution systems where the food grains are sold to people at a subsidized rate of their original cost in ration shops. He also said that food is a fundamental need for everyone. We also need food, clothing, education, shelter and added that we must never be selfish in giving anything to others and we must use our education for helping others. He mentioned about the plight of food scarcity faced by the people in the early 1960s and also he informed that each and every second a child in India is malnourished and every 3.6 sec one child is dying due to hunger and poverty and is also a main challenge faced by our Indians. His knowledge on the subject was overwhelming than anyone else I have met. He gave each of us a set of notes regarding the facts happening around the country we read them and he explained us about the information in each and every paragraph was knowledgeable and useful to us. We gave our reports for correction and also we gave our scrap books for correction and the information regarding the crop which we had researched about. I had did a project on "Tapioca Cultivation". During that time Mr. Mullanchery.M.Velaian, the organizer of the KAP arrived there as he had been in some meeting. Initially he had spent his time with the blue team members before coming to us. We had discussed about the various notes that we had prepared on the topic with him. He pointed out the things that we could add to our topic. His pleasuring advice and reassuring voice helped us to do something we could never do and he also

told about the improvements that we can make in our reports. His advice was really useful to us. I always appreciate his valued advice at the needed hour and I was also assigned to do the PPT on 8/12/12 at Sigma college of architecture and then to force away lethargy we had a delicious tea with biscuits . Next we had a common meeting and Mr. Velaian gave us an really interesting speech on sending reports and thanks letters. He stressed that we must develop the habit of saying thanks to others particularly to those who helped us a lot in the process of visiting different institutions and places. Language is not a matter while sending reports and then our team scientist Ingersol sir gave us an brief talk on the importance of food and agriculture. At last blue team coordinator Mr. John Rabi Kumar gave an talk on the importance of the reports we send as they are the only ways for the KAP to evaluate us which was followed by some advice from Mrs. Jaya Selva Kumari. Thus our first team meet came to an end and I am looking forward for the next programme.



3.A. Annlin Steffy Blue Team Leader

WHEN SHALL WE MEET AGAIN? IN THUNDER, LIGHTNING, OR IN RAIN?????????

This thought arose in my mind during the last minute of departure from Jeyananda Hospital. But this was fulfilled by a phone call that rang on last Thursday saying that there is a team meet on Sunday(2nd of December) and inform 'all the team members of blue team to join this meeting'. I also did the same. Like the message said in the phone call, we had our first team meet at *JAY TEC DESIGNER TILES, PARVATHIPURAM*. It was a small hall which was divided into two rooms. It belonged to the coordinator of green team, Mrs. Jaya selva Kumari mam. That day the meeting was held only for the two teams, **GREEN** and **BLUE**.

I reached the venue by 1.10 pm and saw that our guide teacher, Gayathri mam and our Resource Person, Beula mam seated there already. Also I viewed some members of our team and green team were sitting there. Suddenly we saw the arrival of Mrs. Jaya selva kumari mam who came there along with her two sons. I greeted mam a good afternoon. My mother was talking with her for three minutes and found that herself and Jaya mam had good relations with each other.

Suddenly all our team mates and our coordinator Mr. John Rabi Kumar, arrived at the meeting point and we commenced the jamboree. The blue team had it outside the office and the green team sat inside the office and had the meeting. We were very happy to see one of the punctual scientists, Mr. Ingersol there with the green team having a serious discussion. Then our guide teacher Mrs. Gayathri checked whether all our team mates had arrived. Then we found that two team members of our team, Jeevanantham and Renishiya were not present. After that our coordinator Mr. John Rabi Kumar said that it is not a matter, we will see to that in the next meeting.

Our meeting started with the welcome address by Master. Jayaram of our team around 1.45 pm. It was really an appreciable scene. He conveyed his hearty welcome to the following people:

- Our Coordinator, Mr. John Rabi Kumar
- Our Guide Teacher, Gayathri mam
- Our Resource Person, Beula mam
- And the blue team mates.

Then Jayaram received the clapping sounds of everyone including the parents who were seated outside the hall.

Then we had a chance to tell all our difficulties-- what we felt in the past two camps at Lord Jegganath College and at Jeyananda Hospital. Each of us got a chance. Some of the difficulties were:

- Cannot understand anything as they spoke in English.
- Travelling for more distances.
- Some speeches were not audible to us.

Then our Coordinator ,Mr.John Rabi Kumar said that such complains should be made on the spot so they we could find some immediate remedy. And from the next camp we were asked to inform our difficulties on the spot itself. We also agreed to this statement.

Then Our Coordinator ,Mr.John Rabi Kumar referred to the communication problems within us. This was the main problem with all the young scientists. In his talk he told that we must convey the message to the other members. We must share the information we see in television and news paper also. The other point he stated was about report writing. He reported that we must write what we listen from higher officials as in KAP we are not able to conduct a test for us. We must send the report on time. He shared some of the information what he read with us. They are:

- In Meghalaya there is one farm in which some canals are dug in between the plants where the farmer grows the fish. It's really wonderful.
- There is one book called **THE READER'S DIGEST**. In this month edition, there was one article that mainly dealt with the five crops that will provide enough for alleviating poverty and overcome food crisis.. He also insisted us to read that book.
- Basumathi rice is the only rice that India got paternship and can export and the other countries never have the right to export this kind of rice.

It was around 2.45 pm when all these were over. To our surprise we had the presence of the organiser of KAP and his better half, Mr & Mrs.Mullanchery.M.Velaian at the meeting point. We got up and wished them a happy good afternoon. Then he sat with us for a small discussion. He saw the various materials collected by us. Our guide and our resource person also saw the paper cuttings, reports and the research topic materials and the information about the crops prepared by us. They signed at the last page of our findings as an identity that they have gone through that.

Then by 3.30 pm we had a short tea break and a packet of biscuit that was so delicious to have . At that time our empty stomach was filled full. This was prepared by Mrs.Jaya Selva Kumari of green team. We are

very much thankful and devoted to that mam for providing us with food, one of our basic needs.

Then we had a serious discussion regarding the coastal study tour that we have to prepare the pamphlets and give it to the coastal people. We are allotted the topic of the pamphlet that is **LET'S SAVE THE SEA CERATURES AND SEA ORGANISMS**. We had the various points that we had to include in that pamphlet. And some of them are:

- Dumping of plastics
- Plastics dropped near the estuaries.
- Oil spills
- Waste from the houses and industries
- Exausts of the green house gases

After that we were about to end the jamboree. At that time all the teams and team members assembled at one hall. First, Mr. Velaian sir spoke. He could understand that both the teams have learned a lot from the meeting . He also asked about the sending of the thanks letter to various institutions. He stressed the points like, report writing and communication with all the team members. He claimed about the coastal study camp from Neerodi to Vattakottai. He was so glad in telling the chance we have got to speak to the ISRO officials that even they are afraid of . He also briefed that there must be improvement in our daily activities. During his speech he included that we can make use of Siva Subramanium sir that he is so kind and can give us more and more information. Overall his talk was so inspirational that we were able to understand everything.

The team meet has brought the members and the resource persons still closer. We learned a lot from the inter-action. We are grateful to KAP for this fine chance.



4. Abiulin V.J. Lazhya Blue Team

"Success is where preparation and opportunity meets" said Bobby Unser. Like wise to make the Preparatory programme success we had a team meet on 2-12-12 in Jay Tech Design Tiles in grace complex Parvathipuram. The meeting started around 1:40pm. Welcome speech was given by my team mate Jaya Ram. Then our team coordinator Mr. John Rabi Kumar asked us to tell our experiences and the problems that we had in the previous meetings. First Aravind Sivan spoke next Ashwin Sam then Paul Richard lilted that in Lord Jegannath College mostly they spoke in English this was bit hard for him to understand. Later sir stated that "the difference between young scientist student and ordinary student is that the young scientist students should have the courage, confidence and liberty to ask for anything if they wish to have or want". He insisted that we have to improve our communication skill and inform each other about the next meeting. He told that **to know whether we are concentrating, observing and recollecting back whatever we had learnt only they are asking us to Write the report;** and also to send reports in time. In Reader's Digest book it was given that there are 5 different crops that can stop poverty in the world.. Also there is one rice crop which can tolerate flood and will live in water even for 20 days.

By that time Velian sir also joined the meeting. He insisted that we have to send reports on time and even thanks letters. We must take extra strain and effort and do each and everything to make it perfect. John sir stated that **India is the only country which got pattern for growing and exporting Basmati rice in the world and as on today India is the first and largest exporter of rice surpassing Thailand.** Later our team coordinator, guide teacher and resource person evaluated our report, paper cuttings. In that sir gave us few tips how to write the report and told our mistakes so that we can correct it.

Followed that we started to prepare for the coastal study camp. Velian sir gave us the topic in which we have to prepare the notice. Our topic was save the resources of sea. John sir dictated few points on that topic. We also said few points.

Then both Blue team and green team assembled. Velian sir organized that. He verbalized that only few students sent thanks letter to **Lord Jegannath College and not to worry about language. We have to write the feedback at last of each report.** He added that we have to take communication skills as easy, communicate well with Siva Supramanium sir.

Continued that Ingersoll sir spoke that we are doing well, taking good effort, we must read what is given in paper cutting, we are learning together. They are trying to give fundamental basic how to research, communication skill must improve. Whatever we do we should do with happiness. Concluded by saying that respect your parents, teachers and elders. Then our team coordinator stated that our development, our change can be only shown in our report and this is their indicator to find our development and change. We must have courage and confidence. Then Jaya Selvi mam spoke that we must talk to our team coordinator, guide teacher, resource person, consultant and scientist. **If communication is proper then everything will be proper.** Then Velian sir said briefly about the next meeting. By that our first team meet came to an end.

Feedback:

- Nice opportunity to interact with my team coordinator and guide teachers.
- They told us to take everything easy, now I started to take everything easy and now I am happy.
- We discussed about our topic that is estuary and natural resources in coastal Kanya Kumari which gave me more information to prepare ppt.

I thank KAP for what they have done.



**5.J.S.Anandhu Krishna
[Leader, Maroon team]**

**"Happy moments, Praise God; Difficult moments, Seek God;
Painful moments, Trust god; Every moment, Thank God "**

I reached the hostel by 9:25 am. I was amazed to see my team mates who have arrived there already. I felt bigheaded about them since they were prompt. As soon as I reached there, our team coordinator, Shri.L.Edwin Sam came out running to invite me. I was totally impressed on his very simple attitude. We went upstairs to have the meeting as we thought that it could provide more privacy. The place was open so that there was apposite circulation of air and light inside the room. The green environment delighted our senses. The meeting began by 10.00 am, a bit late because we were waiting for the arrival of our guide teacher and other team mates. Unfortunately, two of our friends were absent. Even then, we managed to have our meeting in an effectual way.

In order to make the team meet blissful with God's blessings we had a silent prayer for two minutes.

In the beginning, Coordinator proposed the introductory talk. His talk added immense pleasure to the allure of the meeting. He mentioned a few purposes of conducting team meets. They were:

- To develop team spirit
- To bring familiarity among the team members
- To build up mutual understanding
- To enhance certain life skills

Etc.....

He also insisted that to be a scientist, we should have scientific attitude and aptitude. He also told that these qualities will also help us to excel in all the professions that we choose. He mentioned the basic steps involved in developing these qualities. They are:

- Knowledge enhancement
- Skills development and
- Betterment of attitude.

He stated that to enhance our knowledge, we must develop a questioning attitude. There are three major questions, among which the question 'why?' should be given the highest priority, then the question 'what?' and finally the question 'how?'. He also mentioned the functions of these questions like:

- 'Why?' clarifies the purpose of something and improves the reasoning skills.
- 'What?' gives the content explanation.
- 'How?' explains the methodologies being adopted.

He also mentioned the various ways through which we can develop our scientific attitude like:

- Observation skills
- Information Gathering
- Experimentation
- Analyzing and systemization
- Communication skills

He also recited the story of five blind persons describing an elephant, in an effort to elucidate about the observation skills. He also mentioned the differences between science and arts. He wonderfully quoted that "Our attitude decides our altitude." He told that failures must be utilized as the stepping stones to success in order to be a first-class scientist. He used Thomas Alva Edison and his achievements as an example. He also avowed that "Training and Perseverance are the two eyes of success. He insisted us to make use of the opportunities properly. Immediately, I contemplated the proverb: "Strike while the iron is hot". He mentioned three differences between man and animal. They were:

- ✓ Man has certain duties to perform while an animal doesn't have them.
- ✓ Man has relationships that he has to respect while an animal doesn't have them.
- ✓ Man thrives hard to enhance the circle of dignity while an animal doesn't.

Finally, he concluded his talk by specifying an important point that whatever we do, it should be useful to the humanity.

Then, we had our tea break. We had hot sizzling tea and sweets that were yummy. During the tea break, our team scientist, Shri.P.Murugan arrived there. He was so simple. Then, I thought of the proverb: "Simple and Humble is the temple of God" and expected him to be humble too. After his arrival, we had an exceptional interactive session.

In the beginning he told that in order to enhance our knowledge we have to develop our brotherhood and sisterhood. He stated that a smile can keep us healthy for long. He also specified that godowns are otherwise known as storehouses. Then, through the interactive session we filled the blanks in the pathway of food production and consumption between the producer and consumer. The pathway is:

Producer [farmer] Wholesaler Retailer Godowns Markets Consumer.

He gave some information about levy [the amount of food that a farmer is expected to give to the government]. Then, we had an effective debate session on the title: "Why is the farmer not able to fix the rate for the crops that he produce?". It was really cost-effective.

Then, we were asked to read the reports we have prepared on our research topics. In between, Shri.Murugan asked to list a few problems that agriculture and agriculturists are facing. Some of the problems we listed were:

Seasonal variations and pest attacks
Lack of rich background
Land degradation and insufficient water management

Etc.....

Later we came with some effective measures like:

- ✓ Cooperative farming
- ✓ Providing incentives to farmers
- ✓ Reduction of labour charges
- ✓ Proper usage of machines and thereby effective mechanization
- ✓ Providing agricultural information to rural farmers

Shri.P.Murugan also told that Grapes are the only fruits sprayed with the most deadly pesticides and therefore we are expected to wash the fruit five times in hot water. As a result of the report discussion sessions, we were able to know about food production in the ancient times, packaging of cashews, packaging materials, food distribution constraints etc..... Unluckily, we were unable to complete the report discussion sessions in the morning. The meeting was dispersed for the lunch break. We had a very scrumptious lunch. As soon as we moved to the meeting hall, Shri.P. Gopalan Counsellor of maroon team arrived there. He had his lunch and the meeting began within ten minutes.

In the beginning of the afternoon session, Scientist Murugan introduced himself and specified the role he played in ISRO. In his introduction, he specified that we should perspire to reach great heights and to attain success.

After that there was a prolonged but pleasurable talk by Shri.P.Gopalan in which he mentioned a few real life incidents in which government employees are ill treating the public and how he, as a government employee tried to be ingenuous and honest. He told us to interact with the society and insisted us to share knowledgeable matters with them. He also mentioned that if we do good to others, then we gain respect from them and if we gain respect from them, we are respected by the society. He told us to be kind-hearted and generous to have self-satisfaction. He précised few mistakes that we are committing while writing reports. He also insisted us to write a report on that team meet within five minutes, so that we do not commit any mistakes in our future reports. I was asked to read my report in front of all and then corrected my mistakes. I felt that it was useful to my team mates.

Then,we continued to discuss our reports on the chosen research topics. After each and every report, there were awesome discussion sessions to ensure that all of us have understood the matter. As everyone completed reading the reports, Coordinator told that the next reports must be even more better as it has to be published in the book. He mentioned the date for the next team meet and told that we must inform Sir frankly if there has to be any change in the date. Then, we asked for feedbacks. As the end of the team meet, Anjali of our team proposed the vote of thanks. Thus the meeting came to an end. We had our tea and then left the place.

"Coming together is a beginning, keeping together is progress and working together is success."

This is the mantra of success. We will thrive as a team to attain success

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THANK YOU



6.J. Livee Blue Team

The team meet at Grace Complex sharply started by 1.15 p.m. Jeyaram, our team mate gave a small welcome address. John Rabi Kumar sir asked our experiences and difficulties which we faced in our previous team meets and camps. Arvind Sivan, Paul Richard, Ashwin Sam, Jenisha shared their experiences in the camps. Mr. John Rabi Kumar advised us to talk frankly and clarify our doubts at that time itself. He told us the way to ask doubts (i.e.) by asking excuse and with their permission or at the end of the meeting we can clarify our doubts.

He showed a book of reports which was published by Pavithra a young scientist of 2011-2012. He explained about the confidence that she had to publish a book, when she was only in 8th std. He reminded us once again to send the reports soon in time. By the time of discussion Velaian sir joined our pleasure meet. Mr. Velaian greeted us and checked our reports and paper cuttings. He gave a suggestion to read the paper cuttings, and should clarify the doubts with the concerned co-ordinator. Some of the suggestions given by him to prepare the topic on estuary and Kanyakumari coastal resources are really very much useful to us. The coordinator of our team asked our reports and the study report on a particular plant which was already assigned to us.

While discussing about our plant study John Rabi Kumar sir shared some of the information related to our study. He explained about the honey without bee (i.e.) sugarcane and told that Basmati rice was the only rice that India only can export it to other countries. He gave a current information that once Thailand was the first largest exporter of rice. But now India is the first largest exporter of rice.

He gave us some ideas about the coastal resources of Kanyakumari such as fisheries, coral reefs, salt preparation, sea weeds which are harvested in the seas itself and used as medicinal plants, pearl etc. Meanwhile, Mr. Velaian gave topic for the camp on 29th and 30th December and the topic is protect coastal resources. Hearing this we were all excited, our coordinator asked us to prepare an advertisement or poster for this topic and told us to bring it on 8th December.

All of us shared our thoughts and ideas about this topic. Nearly we got ten points to prepare an advertisement. Such as dumping plastics in the coastal areas, releasing waste water from houses and factories into the sea and polluting it. Releasing of greenhouse gases from industries which had increased the earth's temperature and this results on melting of glaciers that

increases year by year etc. At last our coordinator concluded to reduce wood fuels which release greenhouse gases and avoid the use of dumping plastics in the estuaries. After giving useful information Mr. John Rabi Kumar suggested us to read the Readers Digest. He also said a news which he read in this month Readers Digest about five plants which can save hunger in the world. He mentioned that in Meghalaya the farmers are practicing a different way of integrated agriculture (i.e.) They grow fishes in between rows of crop and the height of water and the space between the paddy will be more in order to grow fishes there. So the farmer gets rice as well as fish. After giving all these information our guide teachers checked our plant study report and paper cuttings. After 10 minutes we had a small tea break and we had the combined meeting with the green team which ended with the speeches and talks given by Velaian sir, Ingersol sir, Mr. John Rabi Kumar and Mrs. JeyaSelvakumari.

First Velaian sir came in front and conveyed with us that young scientists should search in small things. The important message given by him was communicate with each other in order to develop and improve ourselves. He concluded by saying that while writing a report all must write what message you have got in the particular day of meeting and put a full stop to his address.

Then Mr. Ingersol reiterated that we are getting all the fundamental base in KAP for becoming a scientist in future. He requested us to do happily all the works given to us and don't think it like a burden and read the paper cutting and clarify the doubts with the particular coordinator was the message given by him.

Next Mr. John Rabi Kumar repeated that one's concentration and writing power can be shown out only through the reports he/she writes. So write reports as soon as possible and asked us to be frank and communicate with team mates to improve your personality. After this Mrs. JeyaSelvakumari suggested not to be frightened to ask and clarify the doubts and asked us to be courage and finished her small talk. The days Team meet ended by 5 p.m. We had an opportunity to have understanding, cooperation and effective interaction with our team mates, our guide teachers, coordinator, organizer and up course with our charming genius scientist Mr. Ingersol. We are indebted a lot Mrs. Jeya Selva kumari and her family for their hospitality and pain they had taken for arranging this team meet. I took a decision to be courage as it is the sign of a young scientist.



**7.J.Dharan,
Leader - Red Team**

The first team meet of Red team was held at Prof.Thiyagaswamy's house, Marthandam on 3rd December. The meeting started at 2:50 pm. Deenuraj of Red team said the welcome address. Mrs.R.R.Rehka, the Resource Person of Red team, Shri.D.Samraj, the Counselor of Red Team, Ms.Shebha Rathi, the guide teacher of Red Team and Shri.R.Satish Kumar, the counselor of Green Team were few of key members attended the meeting.

Mrs.Rehka started her informative speech with the importance of December 3rd. She said, "Today is the day when Planet Jupiter comes closer to Earth. The leakage of Union Carbide factory, a pesticide plant in Bhopal, Madhya Pradesh happened in December 03. Many Toxic materials like methyl isocyanate gas and other chemicals were exposed to more than 500,000 people of Bhopal. These chemicals damaged the genes of many Organism including human being. The first SMS (Short Message Service) was sent from Britain on December 3rd. Now, 87% of the world population and 74% of India's Population use SMS." Mam also explained about AVM Canal. Anandha Victoria Marthanda Varma Canal is called in short as AVM Canal. It was used for transportation and also it prevents sea water to mix with the fresh water.

Shri.D.Samraj gave a speech about Food and Agriculture. Sir said, the areas near the road were full of paddy fields in the past. But now the people are doing commercial activities. He also demanded everyone to plant at least 10 saplings in a year. Out of which, five plants should be fruits and the other five should be vegetables. He also conveyed that electricity can be used today to grow plants. In Japan, waterproof roofs are built on top of the houses to cultivate plants. So as a Young Scientist, we must plant more saplings and create awareness among others to do the same.

Shri.Satish Kumar also shared his valuable views about Food and Agriculture. He said, even though the population is increasing, the fields are decreasing. Every Year, 1 million children are dying due to hunger and more than 3, 50, 000 people are getting blind because of the deficiency of Vitamin A. To increase the amount of Vitamin A, we must eat yellow colour foods. We must always follow Organic Farming. When we use inorganic fertilizers, the soil will lose its nutrients and becomes unfit for agriculture. So we must use only Bio pesticides and Bio Fertilisers. We must follow new technologies like Crop rotation, Gene mixing etc for improved productivity. Water scarcity is the threat nearby. So we must "Save Water, Save Nature".

Mrs.R.R.Rekha evaluated the reports and paper cuttings. The meeting finished at 5:15 pm with vote of thanks from Saranya.



8.S.Anjali Maroon Team Convener

I reached the venue at 09:15 am. The meeting commenced around 10:00am and started with a silent prayer. Then the introductory address was given by Edwin Sam sir (maroon team coordinator.) In the speech he stated that to be a scientist we must enhance our **attitude and aptitude** and he also stated the meaning of the word 'research' - re search(search again and again). He specified that attitude and aptitude helps us in the profession which we choose. To enhance our aptitude we must improve our:

- **Knowledge**
- **Skill**
- **Attitude**

He detailed that knowledge improves when we ask questions like why, what and how. The most important and valuable question is '**why**'. It is the question to clarify and it helps to focus in our purpose. The second most important question is '**what**'. It is the question from which we get to know the content and the idea about what we have to do/perform. The third question is '**how**'. If we know the answers of why and what (**i.e.... purpose and content**) then there will be an emerge of creativity in our thoughts.

He detailed that to have certain skills like:

- **Observing skill**
- **Information gathering skill**
- **Experimenting skill**
- **Analyzing skill**
- **Communication skill**

He also defined that skill improves only when we practice it. He said that whatever we do should be beneficial for the society. Later he explained about improving attitude. He stated that there is no failure, every failure is just learning. He said Thomas Alva Edison as an example and suddenly I remembered a famous quote "I have not failed, but I have found 1000 materials that don't work." Then he explained about self-confidence with a quote "If I believe I can, then I can. If I believe, then I am right. " He also stated that opportunities never knock twice. The quote "attitude decides your altitude" inspired me a lot. Well ahead he defined the difference between human beings and animals.

Ahead the introductory address we had a tea break. Murugan sir arrived at the venue during the break. Then we introduced ourselves to Murugan sir. We had an interactive session about food production and the factors that affects

the rate of food production which helped us to improve our communication skill. He also explained about the happenings between production and consumption. Then detailed about the benefits of cooperative farming and there was also a debate session which helped us to improve our debating skill. Grape is the only fruit in which more pesticide is added and it has washed five times in hot water before consuming. Then everyone presented their research topic and we had a strong debate filled with energy and I came to know many other facts. Then the lunch was served and it was a pure vegetarian and delicious lunch. Next Murugan sir introduced himself to the crowd and Gopalan sir gave a long and useful speech on how the government officers are ill-treating the illiterates and the poor people. He also advised us to be kind in the future when we come to a higher position and treat everyone in the society equally. We were instructed on how to write a report and we were also asked to write some key points of the first team meet. Afterwards the remaining students presented their research topic and again the interactive session began. We were also given a question to think. The question is as follows: Whether today's food production is controlled by producers or traders? This was indeed a good question to think. The meeting ended with vote of thanks. This meeting helped me a lot to interact more with my team mates and it helped me to improve my communication skill. Thanks to KAP for preparing us for our future in this very young age.