



**2012 MARINE SCIENCE CAMP  
EVALUATION**

# PROJECT DESCRIPTION

- It features highly interactive, laboratory-based activities tailored to students with interest in Marine Science.
- Participants to this Camp are incoming fourth year high school students who have exceptional academic achievement and genuine interest in science and those who have ongoing research study or planning to conduct one.
- Students are accompanied by their respective advisers and will be teamed with experts/scientists throughout the Camp.
- During the Camp, participants will do experiments/hands-on activities under the supervision of experts/scientists.

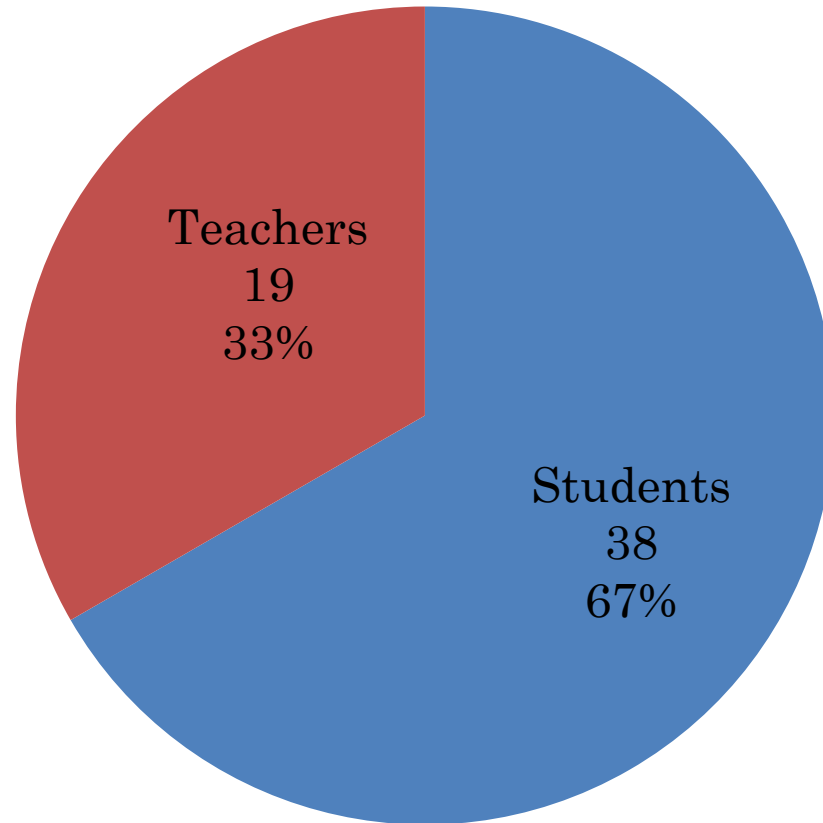


# OBJECTIVES

- To encourage incoming fourth year students to study and explore science and stress the value and reward of pursuing advanced scientific/technical degrees and career while developing the skills necessary to achieve success in science; and
- To create pre-college research opportunities and produce more researches that can be published in science journals.

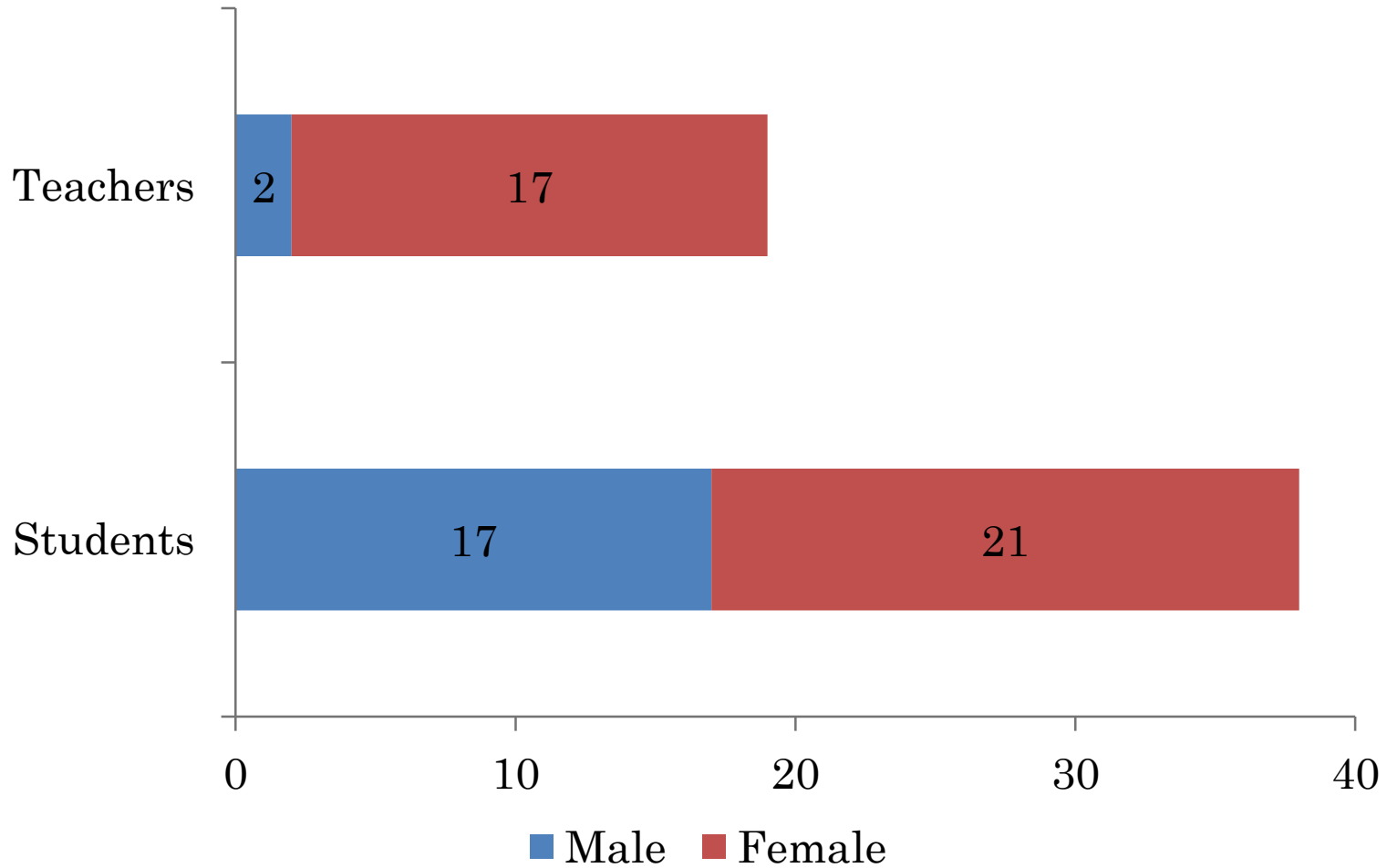


# PROFILE OF CAMPERS



Coming from 19 different High Schools in Regions IV-A, IV-B, & V

# PROFILE OF CAMPERS



# AREAS EVALUATED

- Topics
- Field Activities
- Speakers
- Facilitators/Coordinators
- Venue
- Management

Note: Using 5-point Likert scale, campers were asked to assess 18 statements concerning the above-mentioned areas.



# MEASURES/SCORING (LIKERT SCALE)

Likert Scale	Score
Strongly Agree	5
Agree	4
Undecided	3
Disagree	2
Strongly Disagree	1



# AVERAGE SCALE SCORE PER STATEMENT

Area	Statement	Students		Teachers		All	
		Score	Rank	Score	Rank	Score	Rank
Field Activities	I enjoyed and had a good time in doing the field activities.	4.95	1	5.00	1	4.96	1
Management	The security and welfare of the participants were considered in the conduct of the activities in the Camp.	4.95	1	4.95	2	4.95	2
Field Activities	I learned a lot from the field activities.	4.89	2	5.00	1	4.93	3
Venue	The venue is appropriate for the activities conducted.	4.89	2	4.89	3	4.89	4
Facilitators/ Coordinators	The coordinators are effective in the conduct of the field activities.	4.87	3	4.95	2	4.89	4
Venue	The venue is conducive for learning	4.87	3	4.89	3	4.88	5
Topics	The topics are relevant to my teaching. (for teachers)			4.88	4	4.88	5





# AVERAGE SCALE SCORE PER STATEMENT

Area	Statement	Students		Teachers		All	
		Score	Rank	Score	Rank	Score	Rank
Speakers	The media/visual aids/tools used by the speakers helped me better understand the topics being discussed.	4.87	3	4.84	5	4.86	6
Facilitators/ Coordinators	The facilitators are friendly and accommodating.	4.76	6	5.00	1	4.84	7
Topics	The topics are interesting.	4.82	4	4.89	3	4.84	7
Facilitators/ Coordinators	The facilitators/coordinators are sensitive and attentive to the needs of the participants.	4.82	4	4.89	3	4.84	7
Management	The needs of the participants during the Camp were met.	4.87	3	4.79	6	4.84	7

# AVERAGE SCALE SCORE PER STATEMENT

Area	Statement	Students		Teachers		All	
		Score	Rank	Score	Rank	Score	Rank
Venue	The facilities in the venue are adequate for the requirements of the Science Camp.	4.74	7	4.95	2	4.81	8
Management	The Science Camp was well-planned and organized.	4.71	8	5.00	1	4.81	8
Field Activities	The field activities are well organized.	4.79	5	4.79	6	4.79	9
Speakers	The speakers have mastery of the subject matter.	4.66	9	4.79	6	4.70	10
Topics	The topics are well-chosen and clearly discussed by the organizers/speakers.	4.50	10	4.58	7	4.53	11
Topics	The topics are relevant to my decision in what to take in college. (for students)	3.82	11			3.82	12

# AVERAGE SCALE SCORE PER STATEMENT

Statement (18)	Students	Teachers	All	Over-all Rank
<b>TOPICS</b>				
The topics are interesting.	4.82	4.89	4.84	7
The topics are relevant to my decision in what to take in college. (for students)	3.82	NA	3.82	12
The topics are relevant to my teaching. (for teachers)	NA	4.88	4.88	5
The topics are well-chosen and clearly discussed by the organizers/speakers.	4.50	4.58	4.53	11
<b>FIELD ACTIVITIES</b>				
The field activities are well-organized.	4.79	4.79	4.79	9
I learned a lot from the field activities.	4.89	5.00	4.93	3
I enjoyed and had a good time in doing the field activities.	4.95	5.00	4.96	1



# AVERAGE SCALE SCORE PER STATEMENT

Statement (18)	Students	Teachers	All	Over-all Rank
<b>SPEAKERS</b>				
The speakers have mastery of the subject matter.	4.66	4.79	4.70	10
The media/visual aids/tools used by the speakers helped me better understand the topics being discussed.	4.87	4.84	4.86	6
<b>FACILITATORS/COORDINATORS</b>				
The facilitators are friendly and accommodating.	4.82	4.89	4.84	7
The coordinators are effective in the conduct of the field activities.	4.89	4.89	4.89	4
The facilitators/coordinators are sensitive and attentive to the needs of the participants.	4.87	4.79	4.84	7

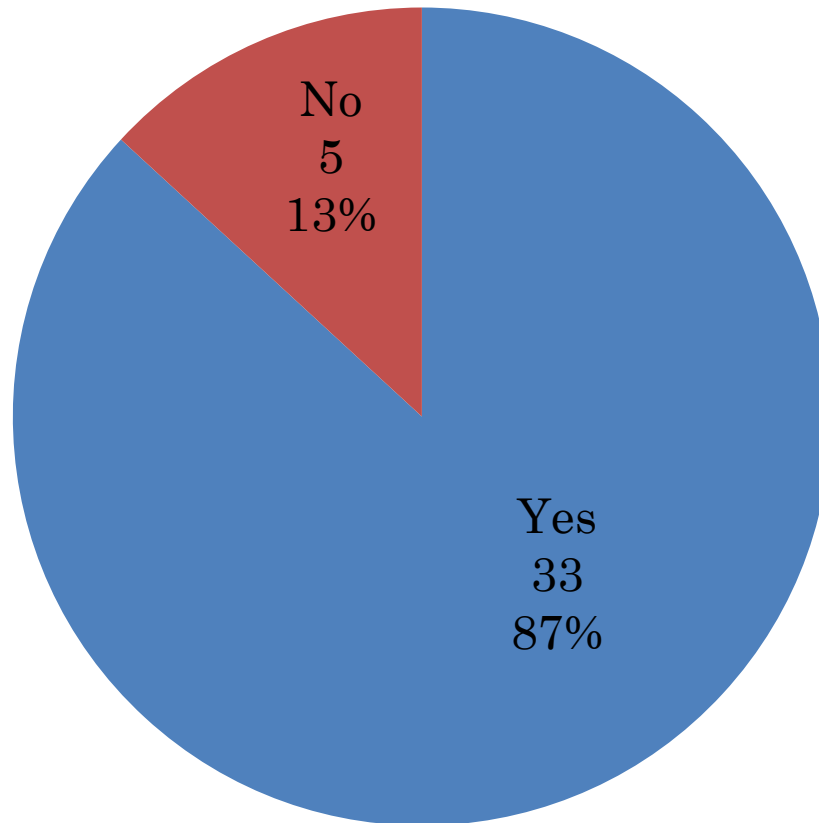


# AVERAGE SCALE SCORE PER STATEMENT

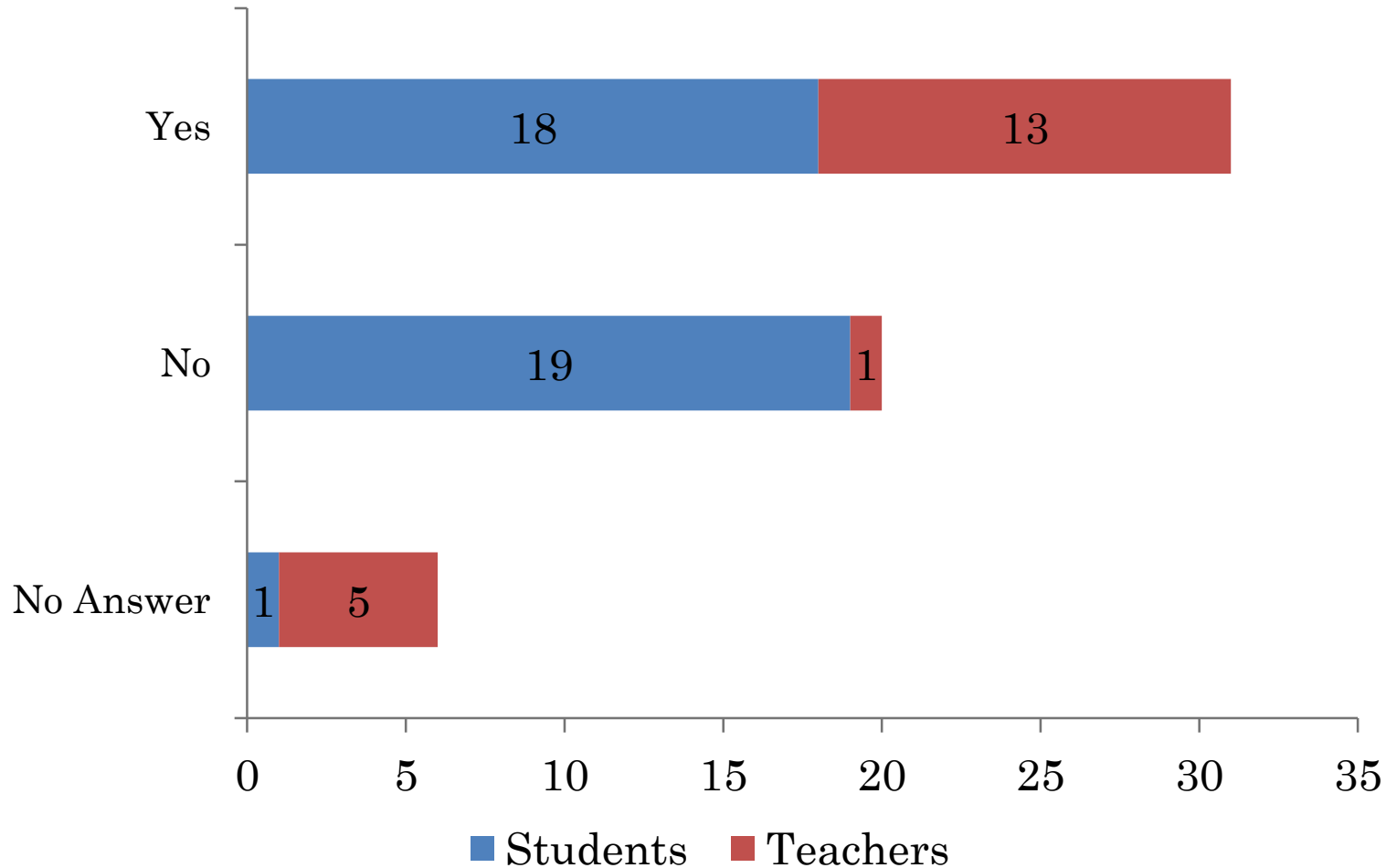
Statement (18)	Students	Teachers	All	Over-all Rank
<b>VENUE</b>				
The venue is conducive for learning.	4.87	4.89	4.88	5
The venue is appropriate for the activities conducted.	4.87	4.95	4.89	4
The facilities in the venue are adequate for the requirements of the Science Camp.	4.74	4.95	4.81	8
<b>MANAGEMENT</b>				
The Science Camp was well-planned and organized.	4.71	5.00	4.81	8
The needs of the participants during the Camp were met.	4.76	5.00	4.84	7
The security and welfare of the participants were considered in the conduct of the activities in the Camp.	4.95	4.95	4.95	2



AFTER THIS SCIENCE CAMP, ARE YOU INCLINED TO TAKE UP SCIENCE COURSES SUCH AS BIOLOGY, MARINE SCIENCE, MARINE BIOLOGY, AND THE LIKE IN COLLEGE (FOR STUDENTS)?



AFTER LISTENING TO THE LECTURES AND DOING THE FIELD ACTIVITIES, DID YOU GET ANY RESEARCH IDEA OR TOPIC YOU WOULD WANT TO PURSUE OR CONDUCT IN THE FUTURE?



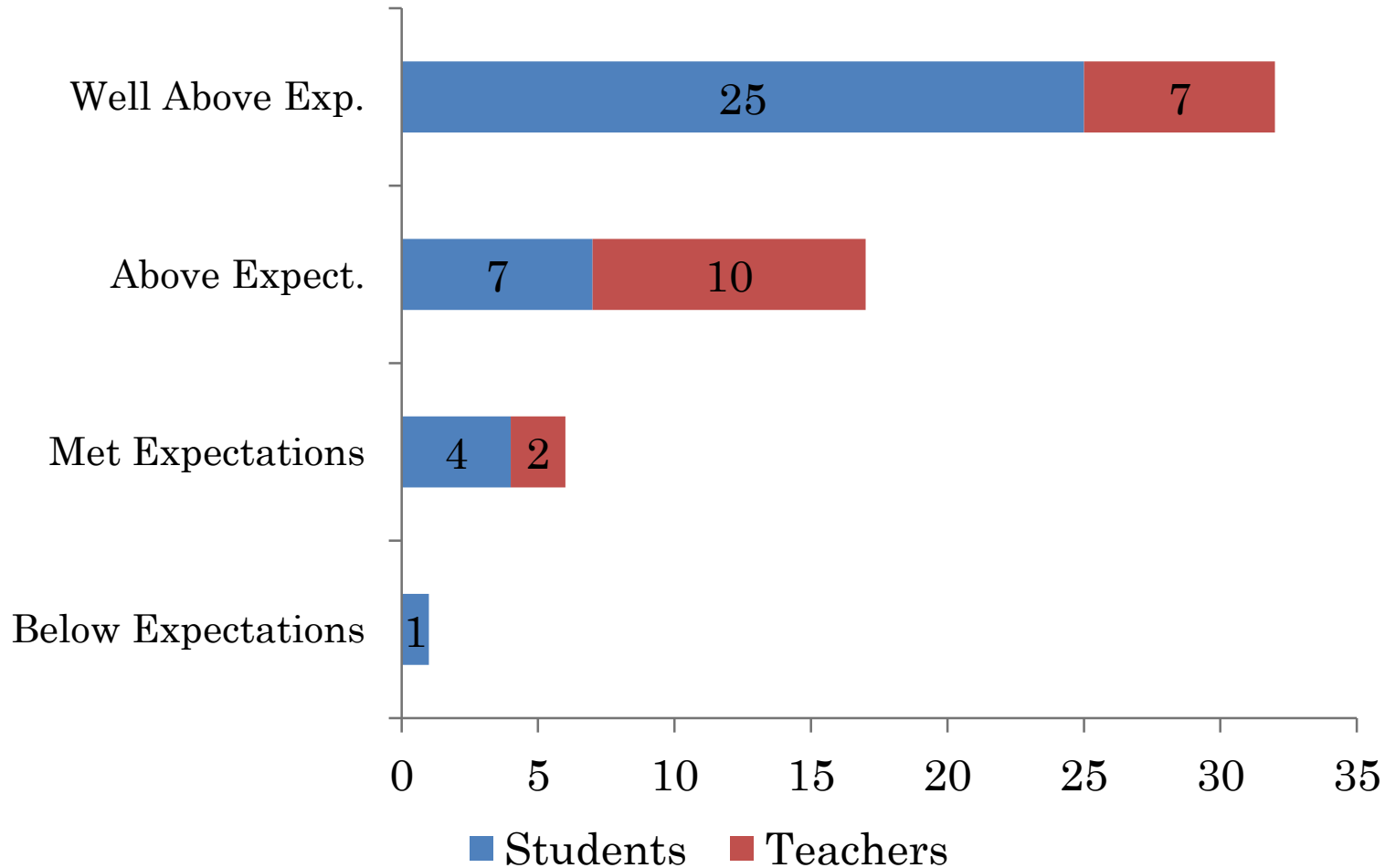
# RESEARCH IDEA OR TOPIC YOU WANT TO PURSUE:

ID	OCCUPATION	RESEARH TOPIC/IDEA
25	Student	About Marine Geology
15	Teacher	About Planktons
1	Teacher	Algae, seagrasses
37	Student	Biological environmental research on sea life
20	Teacher	Brgy. Waste Management Project
13	Teacher	Coral reef conservation
35	Student	Coral Restoration
21	Student	Eco-Friendly Project
16	Teacher	Evaluation of Species Richness in our Bays/Coastal Management
55	Student	Growing some marine organisms that are now endangered
14	Teacher	How to use the adaptation of sea grass to fresh water
32	Student	Kinds of Algae that milk fishes use as their source
26	Student	Marine Geology
23	Student	Marine Geology
42	Teacher	Microcontroller-based wave and tide monitoring system
27	Teacher	Other practical uses of sea grasses/seaweeds
41	Student	Planktons
24	Student	Products from sea urchins.
12	Teacher	Research on seaweeds
28	Student	Seaweeds as an alternative medicine
50	Student	something about sea grasses
22	Teacher	Study on the effectivity of Marine plants as fertilizers
43	Student	Studying coral reefs and clamps
44	Student	Studying life forms in the marine life.
33	Student	Studying sea grasses and corals
11	Student	The effect of Marine Bio to the organisms
9	Student	The effects of marine life to all organisms in the Philippines





# HOW WOULD YOU RATE YOUR OVER-ALL EXPERIENCE AT THE SCIENCE CAMP?



## AVERAGE RANK OF TOPICS THAT THE CAMPERS FOUND INTERESTING

Topic	Students	Teachers	All
Snorkeling 101	2.92	1.78	2.55
Underwater Photography and Video Documentary	4.66	5.59	4.95
GPS Practical Operation Tracking	4.45	6.29	5.02
Basic Biology and Microscopy - Sample Preparation and Preservation Techniques	6.58	4.56	5.98
Water Sampling	6.32	6.06	6.24
Drawing of Plankton Species Through the Use of Camera Lucida	6.74	6.38	6.63
GPS Data Download for Google Earth Visualization	6.92	7.31	7.04
Coastal Geomorphology/Profiling Geology of Bolinao	7.47	7.07	7.36
Sea Safety and Survival	7.79	7.06	7.56
Physical & Biological Water Properties Infinity ME	8.37	7.13	8.00
Measuring Waves and Tides	7.97	8.12	8.02
Introduction to Waves and Tides	8.82	7.88	8.53
Knots & Rope Management	9.26	9.75	9.41

## AVERAGE RANK OF TOPICS THAT THE CAMPERS FOUND USEFUL

Topic	Students	Teachers	All
Sea Safety and Survival	2.16	2.75	2.33
Snorkeling 101	3.87	5.40	4.30
Knots & Rope Management	4.47	5.67	4.81
GPS Practical Operation Tracking	5.21	4.93	5.13
Basic Biology and Microscopy - Sample Preparation and Preservation Techniques	7.11	3.59	6.02
Water Sampling	7.08	5.56	6.63
GPS Data Download for Google Earth Visualization	7.05	9.14	7.62
Underwater Photography and Video Documentary	7.74	8.20	7.87
Measuring Waves and Tides	8.13	7.31	7.89
Physical & Biological Water Properties Infinity ME	8.51	7.53	8.20
Coastal Geomorphology/Profiling Geology of Bolinao	8.39	9.07	8.58
Introduction to Waves and Tides	8.97	8.00	8.70
Drawing of Plankton Species Through the Use of Camera Lucida	8.92	8.57	8.83

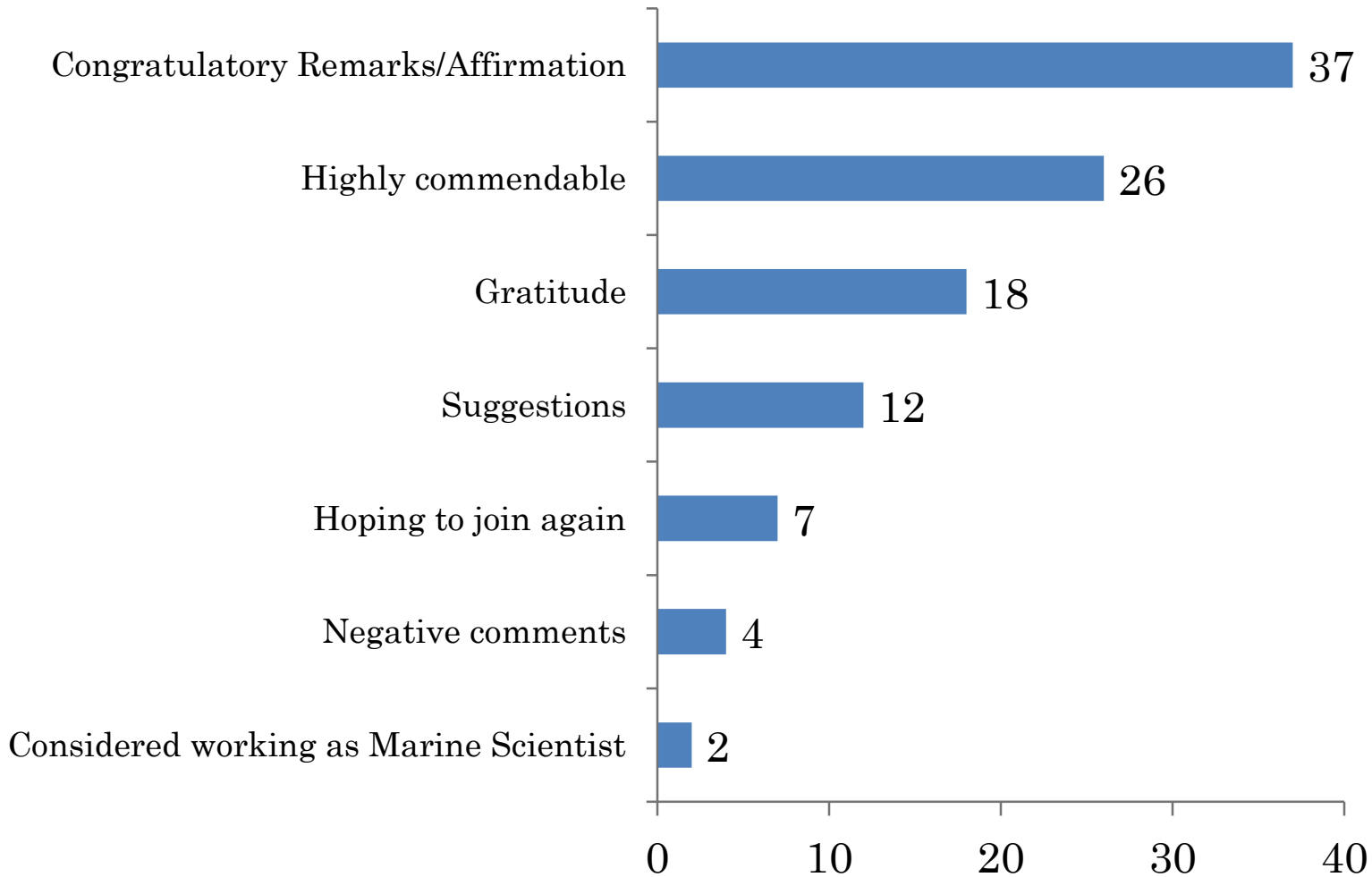


## AVERAGE RANK OF ACTIVITIES THAT THE CAMPERS FOUND ENJOYABLE

Topic	Students	Teachers	All
Coral Reef Exposure	2.39	2.76	2.51
Giant Clams Viewing	2.26	3.71	2.71
Basic of Snorkeling	5.18	3.94	4.79
Seagrass Exposure	5.16	5.76	5.35
Navigation	5.50	5.61	5.54
Fellowship Night	4.76	9.00	6.02
Water Quality Sampling	7.58	5.22	6.82
Community Survey	7.08	6.69	6.96
Plankton Enumeration	8.24	6.11	7.55
Marine Geology	7.53	7.82	7.62
Waves and Tides	8.37	7.53	8.11



# THEMATIC ANALYSIS/SUMMARY ON OTHER COMMENTS & SUGGESTIONS



# OTHER COMMENTS AND SUGGESTIONS: (SELECTED)

“I had a good time and it really made me consider working as Marine Scientist. :) Thank you.”

- Camper ID#18 Female Student

“I really enjoyed this camp! It’s a really great experience and I learned a lot of things and met new friends. This year's camp influenced my decision on what to take up in college though its not that strong but this camp put some spark on interest in me especially in the field of oceanography.”

- Camper ID#51 Female Student



# OTHER COMMENTS AND SUGGESTIONS: (SELECTED)

“I was so thankful and honored to be part of this camp. It was so fun and interesting. In fact, I consider it the most exciting and the best camp I've ever attended so far. I met new friends. I've had a great time. I never imagined myself swimming in the deep blue sea. Thanks to UP. It was so fun.”

- Camper ID#54 Female Student

“The camp was awesome. It is one of the best camps I've ever been to. The activities were great especially the snorkelling, diving, exposure activities. I had a great time with my friends, my new friends actually. I learned new stuff about sea life while enjoying at the same time. The only flaw i saw was the poor reception of Globe. But all in all, I would come back here if given a chance. FUN!!”

- Camper ID#37 Male Student

“Overall, I enjoyed the experience. I hope so that next year. We will be chosen again as participants of this very nice project. It changed my perception and how I really love marine science.”

- Camper ID #44 Male Student

## OTHER COMMENTS AND SUGGESTIONS: (SELECTED)

“This Science Camp is the best camp I've experience. We learned a lot not only by the book. In this camp the learning by doing/experienced is well applied. We are very thankful for the chance given to our school so our students were expose to the beauty of our marine ecosystem. This camp is well organized and most especially the trainers are well equipped with their skills and they are nice and approachable.”

- Camper ID#6 Female Teacher

“This 2012 Marine Science Camp is a great science camp. Actually this is one of the most organized camps that I have attended. Everyone is on plan. But even with this positive feedbacks there are also negative reactions. More food, aircon added rooms are my suggestions.”

- Camper ID#33 Female Student

“This Science Camp is the most interesting activity I've attended so far. Thank you very much for accomodating us this rare opportunity.”

- Camper ID#57 Male Teacher





**THANK YOU!**

**LET'S LOOK FORWARD TO  
THE 2013 SCIENCE CAMP**