PRACTICAL RESEARCH 1
Second Semester
Third Quarter-Module 1
Research Experiences and Knowledge

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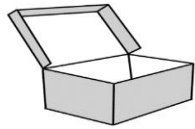
What I Need to Know

A pleasant day Senior High School Students! In this lesson, you are going to learn how to:

Share research experiences and knowledge (CS_RS11-IIIa-1)

You can say that you have understood the lesson in this module if you can already:

1. express opinions about research;
2. identify the reasons why research is conducted;
3. enumerate benefits in conducting research; and
4. recall research experiences and knowledge.

What I Know

Before you proceed to the different activities inside the module, answer first the short *pre-assessment activity* below to find out what you already know about the topic of research.

Write a paragraph containing of at least 5 sentences explaining the following:

1. Your idea of research

_____
_____
_____
_____
_____

2. How do you share research experience and knowledge?

_____
_____
_____
_____
_____

What's In

In Elementary and Junior High School, you probably have experienced conducting researches on various subjects. What have you researched so far? Can you still recall about the research that you conducted? Write it down here.

When I was in elementary or junior high school, I experienced doing a research on

_____
_____
_____

Great! Now tell us, how did you feel after conducting the research? Do you still remember the feeling? Write down that very exciting feeling here:

After conducting the research, I felt

_____
_____
_____

You are impressive! With the kind of behavior you are showing, I know that you will be able to understand the topics that you will be studying which will prepare you to do an interesting task – conducting your own qualitative research!

But do not worry. You do not need to be afraid as you will be guided properly before, during and after doing your output.

To start with, let us discuss on what research is and how important this is in our lives.

You are ready, right?

Let us start.

What's New

Let us start our lesson by reading this experience of a student he/she shared in conducting a research.

> *One of the most important things I thought about when writing my paper was to pick a topic that I liked and would enjoy writing about and it happened to be one of the most useful devices I have; my iPhone. The next thing I did was re-read the instruction given for the paper so I can come up with a strategy on exactly how to approach my research.*

> *I begin my search by searching information I have some knowledge of, then as I come up on new information, I expand my search. I write down key information I find. I make notes in a manner that can prevent plagiarism and make notes of my references. When I gather all the information that I want to use, I start writing my thesis, highlighting what I want to talk about on my paper. Once I got the thesis done, I start writing my rough draft, occasionally going back and conducting more researches to support my arguments. Once I read my rough draft and make my adjustments, I write my paper.*
> -https://sites.psu.edu/renfransresearch/2016/03/28/my-research-experience/

Let's Analyze:

1. While reading the experience shared by the student, what did you realize?
   _____
   _____
   _____

2. Do you think the student-researcher above did the right thing? Why? Why not?
   _____

What is It

Research is a day-to-day undertaking as a lot of them are conducted in different areas or fields daily.

Research, according to the American sociologist Earl Robert Babbie, as cited by, *www.questionpro.com*, is a systematic inquiry that it is used to describe, explain, predict, and control the observed phenomenon.

As experts say, as human beings, we have always asked ourselves questions about the phenomena we observe on a daily basis as the deepest mysteries of nature. Furthermore, when curiosity and intuition are applied in a systematic approach to find the answers to questions like these, when we draw on experience and the knowledge we've already acquired, then we're doing research.

http://clipart-library.com/research-cliparts.html

But why do research?

Research, dear learner, allows you to do what you are interested in, to learn new things, to develop your skills especially in problem solving and to make you do things in a systematic way. As a senior high school student, researching is one of the skills that you need to develop and do. You will be required by your teacher to conduct researches on topics of your interest. What do you gain from this? Aside from broadening your knowledge and skills, the research project gives you the opportunity to work closely with your classmates, your teacher, and other experienced researchers. Having a self-initiated research will make you contribute to knowledge.

Why Research?

Getting involved in research makes you:

➢ Gain hands-on experience completing a research project.
➢ Work closely with peers, other researchers and teachers.
➢ Hone leadership and teamwork skills as you collaborate with others.
➢ Learn valuable lessons for life and class.
➢ Gain a deeper understanding of the scientific process.

➢ Have the opportunity to discover new knowledge and expand about what you already know

Some Purposes of Research

As read on *www.quora.com*, research must serve one or more of the following purposes:

• To advance some area of scientific knowledge or to undercut some other area of scientific knowledge.
• Because you are interested in this area of knowledge, it is exciting, cool, or even beneficial for humanity.
• Because you like the people in the community of researchers and want to be with them.
• To get knowledge and experience to be a better student.
• To make a name in school.

There you have it dear learners! With the discussion we have above, I know that you are getting more interested and excited to learn more of the topic and share your own experiences and knowledge in doing research.

But before you do the task, let us first identify the reasons how important it is for you to conduct a research.

According to *content.wisestep.com,* research is important for you because it helps you to have detailed analysis of everything. When you have a proper in-depth analysis of the topic, the results come out to be fruitful and also the knowledge is enhanced.

Benefits of Research to Students

These are the benefits that you will get in conducting a research:

1. Enhances knowledge

When you research any topic, you get to know detailed information about that topic. The more the knowledge of the topic, the more successful is the research. So, in order to get good output, you need to do maximum research.

2. Clarifies confusion

The research helps in clarifying the complicated facts and figures. If you have any doubt on the subject, you must research and study it in detail so as to remove all sorts of confusion and get a proper understanding of the content.

3. Provides proper understanding of the subject

To understand the subject, you need to go in depth of the lines. The scanning of the content will never do any good for you.

In order to learn the subject and to know the unknown facts, research, detail study, and full analysis are the must.

4. Gives ideas on methods and issues

Through proper reading, you can learn about the methods and the current issues. Not just the current issues, but also the previous issues can be learned in detail through research. Research includes various methods by which it can be done.

5. Understands the published work

Research is done through the work already published. The experts and the researchers had already done some of the research and you go through that published material to understand the idea and the vision of those researchers.

6. Creates a balance between collaborative and individual work

When you do research, you get to know how to create a balance between the collaborative and the individual work. Individual work is the task that you need to do while collaborative work is something which has already been done by the previous researchers.

In this manner, you get to know which points to take into consideration and which points are to be ignored.

7. Identifies the area of interest

The students also get to know their area of interest. Sometimes, the students aspire to become researchers only in their near future which is quite helpful.

So, through this, we come to know that the research not only helps with the accomplishment of the work but also helps in understanding what needs to be done in their future.

8. Knows how the original study originated

Research is performed to understand the concept from scratch. For example, if you wish to know from where the concept originated, you can do this through research work.

9. Provides understanding the rationale of the research

By engaging in the process of research, you understand the concept in an easier manner.

For example, by preparing the hypothesis, you should truly understand the nuances of the research topic.

My dear learner, conducting a research is something that you will be proud of. It is an important experience that you can share to others and be given appreciation.

How do you reflect on your experience? The part of the lesson below from *ugradresearch.uconn.edu* will guide you how.

Reflect on the Experience

The result of your research experience is a great opportunity to reflect on your learning. Experts say that with every research experience you will learn new skills, learn more about your field, know your strength and weaknesses, and be motivated to pursue your dreams in whatever field of endeavor you want to pursue. In some cases, a research experiences teaches you what you don't want in the near future.

To evaluate your valuable experience and to know what to do next, think of these questions:

➢ What is your overall reaction to and impression of your experience? Is this a subject you see yourself continuing to study? Is this the research you would like to build on?
➢ How do you measure your current knowledge of the work when compared to what you imagined it would be like as you go into the

experience? Did anything surprise you? Are there differences between what you thought it would be like and what it was actually like?
- Did you learn something about the field that you didn't know before? Does this new knowledge impact your opinion of the work and motivation to further engage in research in the discipline?
- Consider your day-to-day tasks – what tasks did you find came easy to you/you did well at, and what tasks did you struggle with? Of those tasks you did well, did you enjoy them? If there are tasks you struggled with, are these the areas you want to challenge yourself to learn more and improve?
- What did you learn about yourself – your strengths and weaknesses – through engaging in a research experience? How do you plan to use this knowledge in navigating future endeavors?

Use the answers to the questions above to prepare for conversations with your faculty mentors to discuss your next steps.

Next Steps

While doing your research, especially when you are about to finish your task, it is advised that you keep a constant communication with your teacher and other people who are helping you with your task. Remember, dear learner that proper communication with people who are involved in your task helps a lot.

Accordingly, it is advisable that you tell them about your experience particularly the ones you enjoyed the most and motivated you to go on and hone your skills.

Below is a sample conversation on doing research:

Sample conversation starter

> *During my experience working with you, I have found that I am drawn towards and most enjoy _____ (doing/researching/analyzing/assisting with) _____ (task or topic). In thinking about how I can build on this experience, and taking into account my goal of _____, I want to gain additional _____ (experience/skills/knowledge) in _____ (researching/exploring/analyzing) _____ (topic). I'm wondering if you have suggestions on next steps that will help me _____ (learn/gain experience in/expand my skills) in _____ (task or topic).*
>
> *As always, I sincerely appreciate any guidance you are able to provide me.*

Maintaining Relationships

As we all know, we need to give credit to where it is due.

You need to express your gratitude to those who mattered and helped you in doing and finishing your task. You can do this by simply writing them a thank you message through SMS, the Messenger, on Facebook, in different social media and even through the traditional thank you card or note. Doing this makes the ones who helped you along the way feel that you appreciate the things they gave you. This will make a constant bond between you and them and you will be sure that the next time that you need them, they will always be again ready to extend a helping hand.
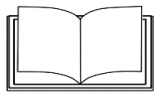
📖 What's More

Answer the activities that will follow to practice your knowledge and skill about the topic on research experience and knowledge.

Activity 1

Answer the questions below about quantitative research and its characteristics. Use your own words in answering the questions and do not copy word for word from the lecture above.

1. What is research?
   _____
   _____
   _____

2. What are the reasons why research is conducted?
   _____
   _____
   _____

Activity 2

Without browsing back the pages of this module, enumerate in your own words the benefits in conducting research.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Activity 3

Write a paragraph of at least 100 words explaining why you need to conduct a research. Be guided by the rubric below when writing your task.

Write your answer here:

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Rubric for Grading the Output:

Criteria	Outstanding 10 points	Very Satisfactory 8 points	Satisfactory 6 points	Needs Improvement 4 points
Content	Paragraph is well-written and topic is discussed properly. Reasons are fully identified.	Paragraph is satisfactorily written and topic is discussed. Reasons are discussed.	Paragraph is somehow properly written and topic is discussed. Some reasons are not discussed.	Paragraph is not properly written and topic is not discussed. No reasons are included.

💡 What I Have Learned

In this lesson, we focused on sharing experiences and knowledge in research. It is important to remember that:

- Research is a systematic inquiry to describe, explain, predict, and control the observed phenomenon.
- Research allows a student to pursue interests, to learn something new, to hone problem-solving skills and to challenge one's self in new ways.
- Reasons in conducting research includes: 1.) Gain hands-on experience completing a research project; 2.) Work closely with peers, other researchers and teachers; 3.)
Hone leadership and teamwork skills as you collaborate with others; 4.) Learn valuable lessons for life and class; 5.) Gain a deeper understanding of the scientific process; and 6.) Have the opportunity to discover new knowledge and expand about what you already know.
- Some purposes of research are: 1.) To advance some area of scientific knowledge or to undercut some other area of scientific knowledge; 2.) It is exciting, cool, or even beneficial for humanity; 3.) Because you like the

people in the community of researchers and want to be with them; 4.) To get knowledge and experience to be a better student; and 5.) To make a name in school.

- Some of the benefits of research are: 1.) Enhances knowledge; 2.) Clarifies confusion; 3.) To have a proper understanding of the subject; 4.) To learn about the methods and issues; 5.) Understand the published work; 6.) Learn to create a balance between collaborative and individual work; 7.) To know the interest; 8.) To know how the original study originated; and 9.) Understanding the rationale.

What I Can Do

Apply what you have learned on sharing research experience and knowledge by doing the activity that will follow.

Based on the sample experience shared by the student in this module, share your own experience by completing the phrase below:

Be guided by the rubric below when writing your task.

Rubric for Grading the Output:

Criteria	Outstanding 10 points	Very Satisfactory 8 points	Satisfactory 6 points	Needs Improvement 4 points
Content	Write up is well-written and topic is discussed properly.	Write up is satisfactorily written and topic is discussed.	Write up is somehow properly written and topic is discussed.	Write up is not properly written and topic is not discussed.

My research experience is _____

_____
_____
_____
_____
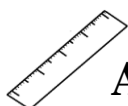_____
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Assessment

Showcase the knowledge and skills you have learned in this lesson by answering the assessment activity.

Assessment Activity

Fill in the blank with the correct answer by writing the letter only.

1. Research is a systematic _____ to describe, explain, predict, and control the observed phenomenon.
   A. comparison   C. description
   B. computation   D. inquiry

2. We have always asked ourselves questions about the _____ we observe on a daily basis as the deepest mysteries of nature.
   A. experiences   C. phenomena
   B. experiments   D. predictions

3. When curiosity and intuition are applied in a systematic approach to find the answers to questions like these, when we draw on experience and the knowledge we've already acquired, then we're doing _____.
   A. conclusion   C. observation
   B. experiment   D. research

4. Research allows us to pursue our interests, to learn something new, to hone your problem-solving skills and to _____ ourselves in new ways.
   A. challenge   C. convert
   B. change   D. criticize

5. Researching is one of the _____ that you need to develop and do.
   A. selections   C. structures
   B. skills   D. subjects

Additional Activities

Everything that we do needs to be reflected about. We think about its outcomes. When we do research, we reflect about how we do it.

Given the sample conversation starter in this module, write your own conversation piece in order for you to share your experience and knowledge in conducting research.

Be guided with the rubrics in grading outputs in the "What I Can Do" part of this module when doing your task.

Complete this phrase:

During   my   research   experience,   I

_____

_____

_____

_____

_____

POST TEST

Fill in the blank with the correct answer by writing the letter only.

1. We conduct research in order to _____ regarding some observed phenomena.
   A. answer questions   C. provide a contribution
   B. brag about our skills in research   D. show our knowledge

2. Observing some phenomena in our environment makes us wonder on things and seek answers to our questions. Research starts when _____.
   A. one gets the answers to his/her questions.
   B. one starts to record something.
   C. one starts to write about something.
   D. one's curiosity and intuition are applied in a systematic process.

3. Your interest in a field of knowledge leads you to conduct a successful research project. This is because _____.
   A. you find it as a way to pass your subject in school.
   B. you find it exciting, fresh and provides benefits to others
   C. you find it something to be proud of.
   D. you find it to be something important.

4. Research is beneficial to not only the community but also to the researcher because _____.
   A. it broadens knowledge and skills and gives the opportunity to collaborate with others
   B. it broadens your connections
   C it makes one famous in school
   D. it makes the researcher gain fame and fortune

5. Researching is a noble work to do and is something you can be proud of because having a self-initiated research makes you _____.
   A. contributes to knowledge
   B. contribute to the community's progress
   C. contribute to the family's income
   D contribute to the number of printed works

6. Having identified the topic of your research, you need to get all the information regarding this because _____.
   A. more knowledge on the topic makes you a bright researcher
   B. more knowledge on the topic makes you a more successful researcher
   C. more knowledge on the topic makes you a somebody
   D. more knowledge on the topic makes you include everything in your research

7. A _____is needed to get a good output.
   A. maximum budget   C. maximum security
   B. maximum research   D. maximum support

8. You did a collaborative work when you _____.
   A. Did something already done by previous researchers
   B. Did something on your own
   C. Published your research work
   D. Submitted you research to your research teacher

9. Research is performed to _____ the concept from scratch.
   A. evaluate   C. perform
   B. identify   D. understand

10. Conducting research allows you to _____.
A. know what you don't want in the near future.
B. Not practice your talent and skills
C. Not pursue your field of endeavor
D. Not to learn more about your field of endeavor

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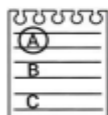
Answer Key

What I know
Answers may vary.
What's In

Answers may vary.
What's New
A. Before Reading Activity
Answers may vary
C. After Reading Activity
Answer may vary
What's More

Answers may vary. Please refer to the discussed lesson. For Activity 3, use given rubrics in grading output.

What I have learned
1. Expected answer:
    Research is a systematic inquiry that it is used to describe, explain, predict, and control the observed phenomenon.
2. Expected answers:
    a. Gain hands-on experience completing a research project.

b. Work closely with peers, other researchers and teachers.

c. Hone leadership and teamwork skills as you collaborate with others.

d. Learn valuable lessons for life and class.

e. Gain a deeper understanding of the scientific process.

f. Have the opportunity to discover new knowledge and expand about what you already know

3. Expected answers:

1. Enhances knowledge
2. Clarifies confusion
3. To have a proper understanding of the subject
4. To learn about the methods and issues
5. Understand the published work
6. Learn to create a balance between collaborative and individual work
7. To know the interest
8. To know how the original study originated
9. Understanding the rationale

4. Expected answer:

a. To advance some area of scientific knowledge or to undercut some other area of scientific knowledge.

b. Because you are interested in this area of knowledge, it is exciting, cool, or even beneficial for humanity.

c. Because you like the people in the community of researchers and want to be with them.

d. To get knowledge and experience to be a better student.

e. To make a name in school.

What I Can Do

Answer may vary. Use given rubrics in grading outputs.

Assessment

1. D
2. C
3. D
4. A
5. B

Additional Activity

Answers vary. Please use the rubric for grading the output.

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