



Republic of the Philippines  
Department of Education  
REGION III  
SCHOOLS DIVISION OFFICE OF NUEVA ECIJA

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**LEARNING ACTIVITY SHEET**  
**SEPCIAL PROGRAM IN ICT 10**  
**INFORMATION SYSTEM AND RESEARCH 10**  
*First Quarter, Week 2*

Name of Learner: \_\_\_\_\_ Date: \_\_\_\_\_

Grade Level /Section: \_\_\_\_\_

## Characteristics of Research

### BACKGROUND INFORMATION FOR THE LEARNER

Research is an activity of systematic investigation that seeks answers to a problem. It involves the gathering, organization and analysis of data to extend understanding of a subject or issue.

As a “systematic investigation,” a research has the following characteristics:

- 1) Empirical - Its data are gathered through direct experience/observation.
- 2) Logical - It is based on clear and valid reasoning; it makes sense.
- 3) Cyclical - It resolves a problem and generates another problem to be solved.
- 4) Analytical - It utilizes tested, analytic approaches in collecting data, whether historical, descriptive, experimental, or case study.
- 5) Replicable - The research designs and procedures can be duplicated to enable the researcher to obtain definite and valid results.
- 6) Critical - It is strict and careful in making a decision.
- 7) Methodical - It uses systematic methods and procedure.

### LEARNING COMPETENCY

Describe the characteristics of research.

### ACTIVITIES

#### ACTIVITY 1

**Directions:** Let us further understand the characteristics of research. Choose the word that has the exact or nearly same meaning (synonym) as the following:

- |                     |               |                  |             |               |
|---------------------|---------------|------------------|-------------|---------------|
| _____ 1. empirical  | a) consistent | b) firsthand     | c) neat     | d) organized  |
| _____ 2. logical    | a) difficult  | b) innovative    | c) flexible | d) reasonable |
| _____ 3. cyclical   | a) returning  | b) numerous      | c) clear    | d) productive |
| _____ 4. analytical | a) basic      | b) investigative | c) obvious  | d) virtual    |



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- \_\_\_\_\_ 5. replicable

a) possible                      b) applicable                      c) repeatable                      d) changeable
- \_\_\_\_\_ 6. critical

a) intensive                      b) extensive                      c) certain                      d) connected
- \_\_\_\_\_ 7. methodical

a) easy                      b) engaging                      c) orderly                      d) comprehensive

ACTIVITY 2

**Directions:** Identify which characteristic of research is being applied by the situations in Column A.  
Choose your answers from Column B. Write the letter of your answer on the space provided.

Column A	Column B
_____ 1. Jessie and James have come up a research conclusion that can still be analyzed and tested by future researchers.	a) empirical b) logical c) cyclical d) analytical e) replicable f) critical g) methodical
_____ 2. Rosie makes sure that she has gathered and is interpreting enough and valid data.	
_____ 3. The procedure and method that Julius used in his research can be imitated and performed again to test the validity of its result.	
_____ 4. Jane follows a systematic order of methods in conducting her study.	
_____ 5. In Frank’s research about children’s behavior, he used experiments and actual observations.	
_____ 6. Leah’s conclusions in her research are agreeable because it is based on reasonable judgment.	
_____ 7. Nick’s data were collected and interpreted with carefulness, to make sure they are free of errors.	

ACTIVITY 3 (OPTIONAL)

You have just learned about the characteristics of research. Now let us watch a YouTube video titled “What Makes a Good Researcher?” by NASA Langley Research Center. Here’s the link!  
[www.tinyurl.com/GoodResearcher](http://www.tinyurl.com/GoodResearcher)



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List down at least 7 characteristics of a good researcher mentioned in the video.

What Makes a Good Researcher?
1)
2)
3)
4)
5)
6)
7)

REFLECTION

Why do you think there is a need to know the characteristics of research? Which do you think is the most important among these characteristics?

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REFERENCES FOR LEARNERS:

“What Makes a Good Researcher?” YouTube, UPLOADED BY NASA LANGLEY RESEARCH CENTER, 22<sup>ND</sup> OF MARCH, 2018  
[HTTPS://WWW.YOUTUBE.COM/WATCH?V=ZBQACNMVPXM](https://www.youtube.com/watch?v=ZBQACNMVPXM)).

Prepared by: **JOHN ELMOS C. SEASTRES**  
Name of Writer

Noted by: **LABERNE A. LADIGNON, JR**  
Division ICT Coordinator/ OIC EPS

KEY TO CORRECTIONS

Activity 1	Answers
1. b	
2. d	
3. a	
4. b	
5. c	
6. a	
7. c	
Activity 2	Answers
1. c	
2. d	
3. e	
4. g	
5. a	
6. b	
7. f	