



ENGLISH



QUANTITATIVE RESEARCH

LESSON 2

I CAN

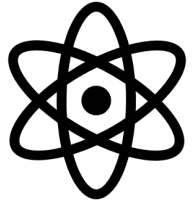


**describe characteristics,
strengths, weaknesses,
and kinds of quantitative
research;**

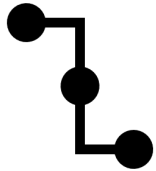


Quantitative Research
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01



EXPERIMENTAL RESEARCH DESIGN



DESCRIPTIVE NON-EXPERIMENTAL



According to **PURPOSE**

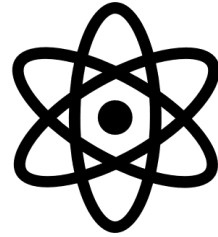


According to **TIME**



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EXPERIMENTAL RESEARCH DESIGN



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03

True Experimental

Determines causal relationship
among variables

Maybe conducted
with or without pre-test

Involves
a control and a test group

With intervention

Sample Title:

**The Effect of Classical
Music on the Academic
Performance of
Students**

(random selection)

Quasi Experimental

Determines causal relationship
among variables

Involves conduct of
pre-test and post-test

Conducted in a
controlled setting

With intervention

Sample Title:

**Reading Intervention
Program for Students
with Low-level
Comprehension**

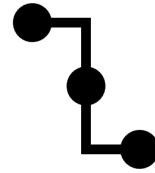
(intact groups)

TRUE EXPERIMENTAL

- Random selection of participants
- Maybe conducted with or without pretest
- Test group and control group

QUASI- EXPERIMENTAL

- ✓ Determine causal relationships
- ✓ Intervention
- ✓ Manipulation of variables
- ✓ Controlled setting
- ❖ Participants are not randomly selected
- ❖ Involves pretest & posttest
- ❖ No control group



NON-EXPERIMENTAL RESEARCH DESIGN

According to PURPOSE



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SURVEY

Done to gather evidence on
people's knowledge,
opinions, attitudes, and
values on various concerns

Variables are not controlled
or manipulated.

No intervention applied.

Sample Title:

***Satisfaction Levels of Food
Panda Customers in
Malolos City***

Are you in favor
of mass testing?



RESPONSIBILITIES:

Record and tally the
responses

Analyze and Interpret
tallied data

Come up with
conclusions

INTERVIEW-
ZONE

SURVEY RESEARCH



YES

2,700 out of
3,600 (**75%**)

NO

900 out of
3,600 (**25%**)

Conclusion:

Majority (75%) is in
favor; therefore
Group A is in favor of
mass testing

CORRELATIONAL

Seeks to interpret the degree of relationship between two or more variables using statistical data.

Variables are not controlled.

No intervention.

Sample Title:

Determining the Influence of Online Gaming to Critical Thinking of Students

Ho: There is no significant relationship between gaming and critical thinking.

Determining the Influence
of Online Gaming to
Critical Thinking of Students

CORRELATIONAL RESEARCH

Ho: There is no significant relationship
between online gaming and critical thinking

RESPONSIBILITIES:

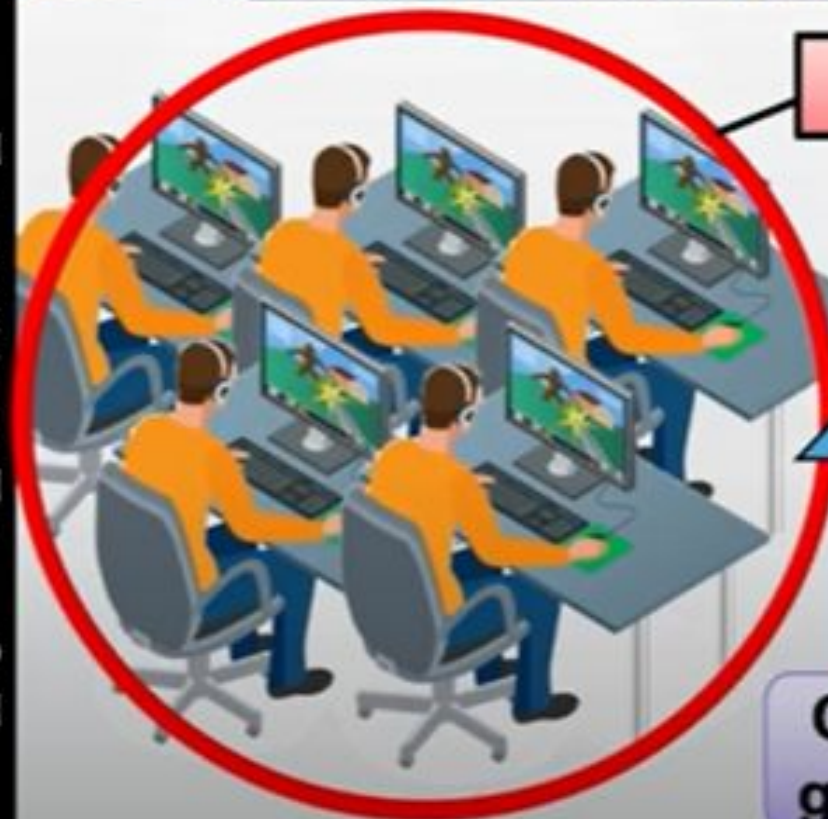
Gather needed data

Apply correct
statistical treatment

Analyze and interpret
treated data

Reject or accept the
hypothesis

INTERVENTION
NON



online gaming habits

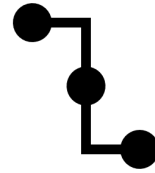
Critical thinking
level

Online
gaming

≠

Critical
thinking





NON-EXPERIMENTAL RESEARCH DESIGN

According to TIME



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CROSS-SECTIONAL

Involves gathering data in a single point in time

Comparisons are made across variables of interest.

**Stress and Anxiety among STEM
Students: A Cross-sectional
Study**

LONGITUDINAL

Data are collected in multiple points in time – present and again in the future.

Done for comparing data sets

**A Longitudinal Study of
Friendship Development**

ACCDG. TO TIME

CROSS-SECTIONAL

same set of variable
with other variables
of interest

Data is collected at a
single period in time

Takes a relatively
short amount of
time to finish

observational

Compare data

No intervention

No variable
manipulation

LONGITUDINAL

Same variable and
same subjects

Data is collected
multiple times

May take a long
time before
completion

EXPERIMENTAL

**Involves manipulation
of variables**

Intervention is present

NON-EXPERIMENTAL

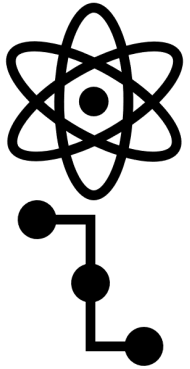
**Involve
numeric data**

**Involve
statistics**

**NO manipulation of
variables**

NO intervention done

SUMMARY



EXPERIMENTAL RESEARCH DESIGN

DESCRIPTIVE NON-EXPERIMENTAL



According to PURPOSE



According to TIME



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REFERENCES

- ★ Pulmones, R. 2016. You and the Natural World Series Quantitative Research. Phoenix Publishing House, Inc.
- ★ Mactal, R. 2016. Applied Research: An Introduction to Quantitative Research Methods and Report Writing. Phoenix Publishing House, Inc.
- ★ Melegrito, M. and Mendoza, D. 2016. An Introduction to Quantitative Research Methods and Report Writing. Phoenix Publishing House, Inc.



ACTIVITY



As a group, which research design would you likely utilize this semester?
Expound your answers.
1 explanation per member (5 pts. each)



TIME LIMIT: 15 MINS.
Research Portfolio



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