Why do we perform experiments?

Test Hypothesis

Explore

To test hypotheses

To answer a scientific question

Discovery

to get results

TEST HYPOTHESIS

To test our hypothesis

To test theories and hypotheses

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Why do we perform experiments?

To draw conclusions from our hypotheses

investigate

to answer questions

to test hypothesis

Observe in a controlled environment

I agree that it's for exploration, too.

to improve science

to go trough our study

to answer basic questions

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Why do we perform experiments?

to confirm prior observations

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What should a well-designed experiment have?

null hypothesis

clear parameters

clear treatments

structured workflow

clear hypothesis

testable hypothesis

ability to reproduce

well designed process

definitive metrics

well-defined hypothesis

cost implication

reproductibility

well defined expectation

clears objective

well-defined parameters

sound study objectives

well-defined methods

define the objective

time frame

postive controls

sound hypothesis

negative controls

sound methodology

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