

Engineering Method

Phase 1
Idea



- Identify problem

Phase 2
Concept



- Existing solutions
- Requirements
- Constraints

Phase 3
Planning



- Define objectives
- Plan program and schedule

Phase 4
Design



- Drawings
- Schematics
- Models
- Algorithms
- Proof of concept

Phase 5
Development



- Prototypes
- Experiments
- Validation and verification

Phase 6
Launch



- Results

Step 1
Ask A
Question

Step 2
Do
Background
Research

Step 3
Construct
A Hypothesis

Step 4
Test
Hypothesis

Step 5
Analyze Data &
Draw Conclusion

Step 6
Communicate

Scientific Method

Engineering Design Methods

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