Science Fair

Steps to Success

Click here for Canva link.

Formal Report Examples:

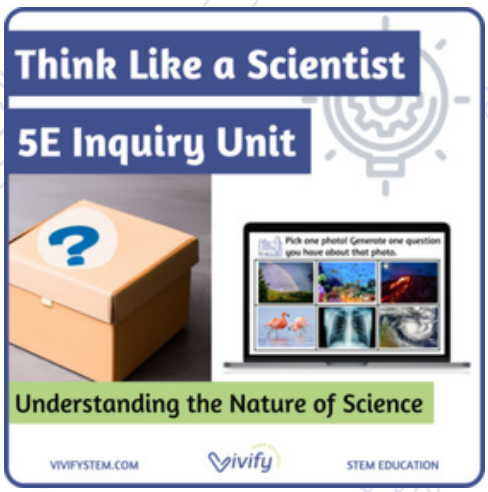
5th Grade Example

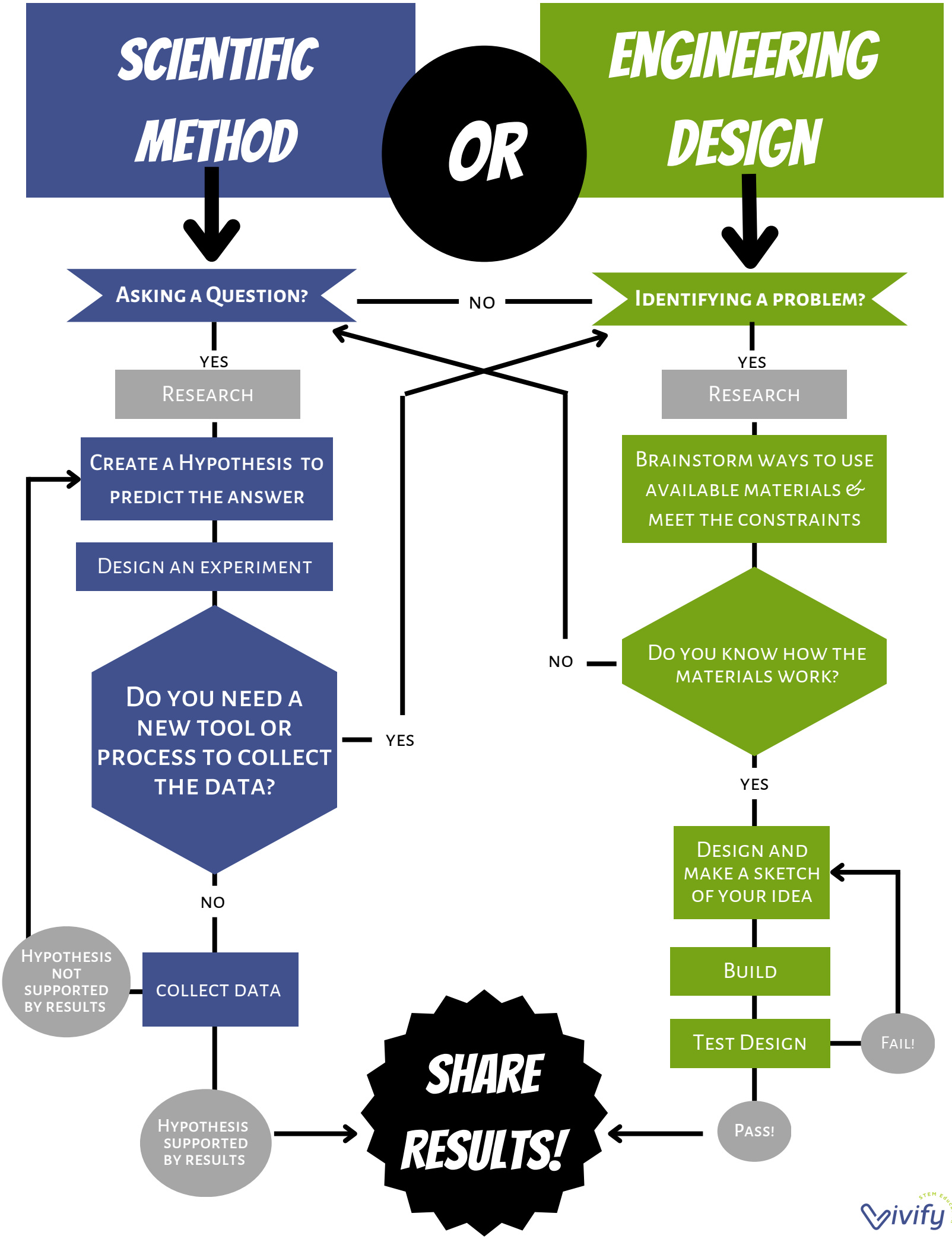
6th Grade Example

7th Grade Example

8th Grade Example

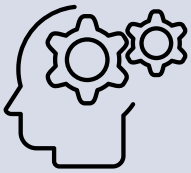
Click images for additional resources.




SCIENTIFIC METHOD
OR
ENGINEERING DESIGN
ASKING A QUESTION?
NO
IDENTIFYING A PROBLEM?
YES
RESEARCH
YES
RESEARCH
CREATE A HYPOTHESIS TO PREDICT THE ANSWER
DESIGN AN EXPERIMENT
BRAINSTORM WAYS TO USE AVAILABLE MATERIALS & MEET THE CONSTRAINTS
DO YOU NEED A NEW TOOL OR PROCESS TO COLLECT THE DATA?
YES
NO
DO YOU KNOW HOW THE MATERIALS WORK?
NO
YES
DESIGN AND MAKE A SKETCH OF YOUR IDEA
BUILD
TEST DESIGN
FAIL!
PASS!
HYPOTHESIS NOT SUPPORTED BY RESULTS
COLLECT DATA
HYPOTHESIS SUPPORTED BY RESULTS
SHARE RESULTS!

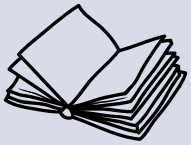
SCIENCE FAIR: STEPS FOR SUCCESS

1 UNDERSTANDING SCIENCE



2 ASK A TESTABLE QUESTION

3 RESEARCH



4 FORM A HYPOTHESIS

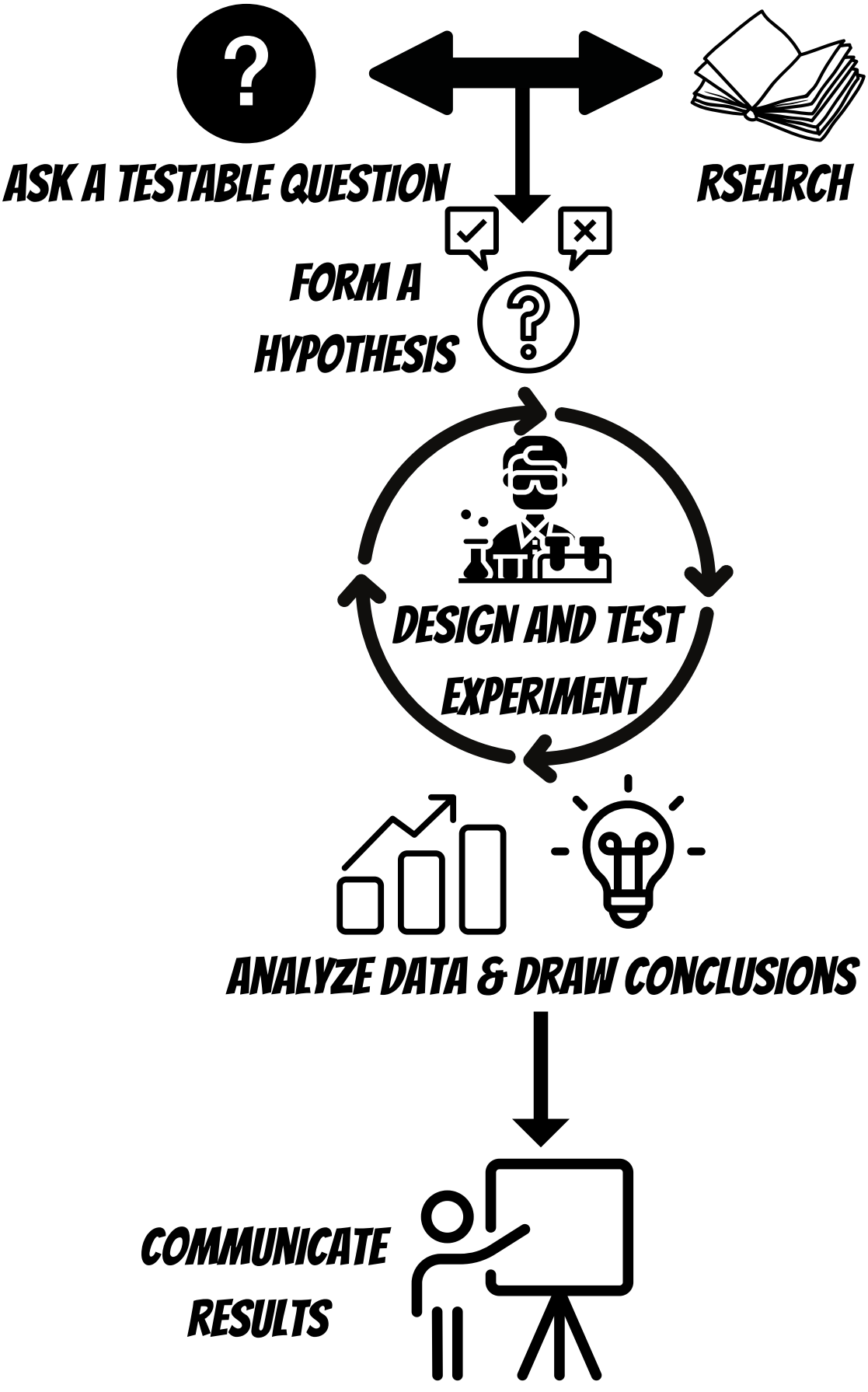
5 DESIGN & TEST EXPERIMENT

6 ANALYZE DATA

7 DRAW CONCLUSIONS

8 COMMUNICATE RESULTS

SCIENCE FAIR: STEPS FOR SUCCESS

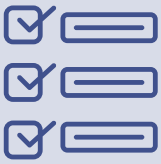


ENGINEERING FAIR: STEPS FOR SUCCESS

1 DEFINE A NEED OR PROBLEM

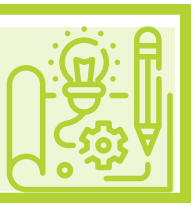
2 RESEARCH

3 DESIGN CRITERIA & CONSTRAINTS



4 DESIGN

Preliminary & Final Designst



5 BUILDING A PROTOTYPE

6 TEST & EVALUATE

7 ANALYZE DATA

Make Design Changes & Retest

8 DRAW CONCLUSIONS

9 COMMUNICATE RESULTS