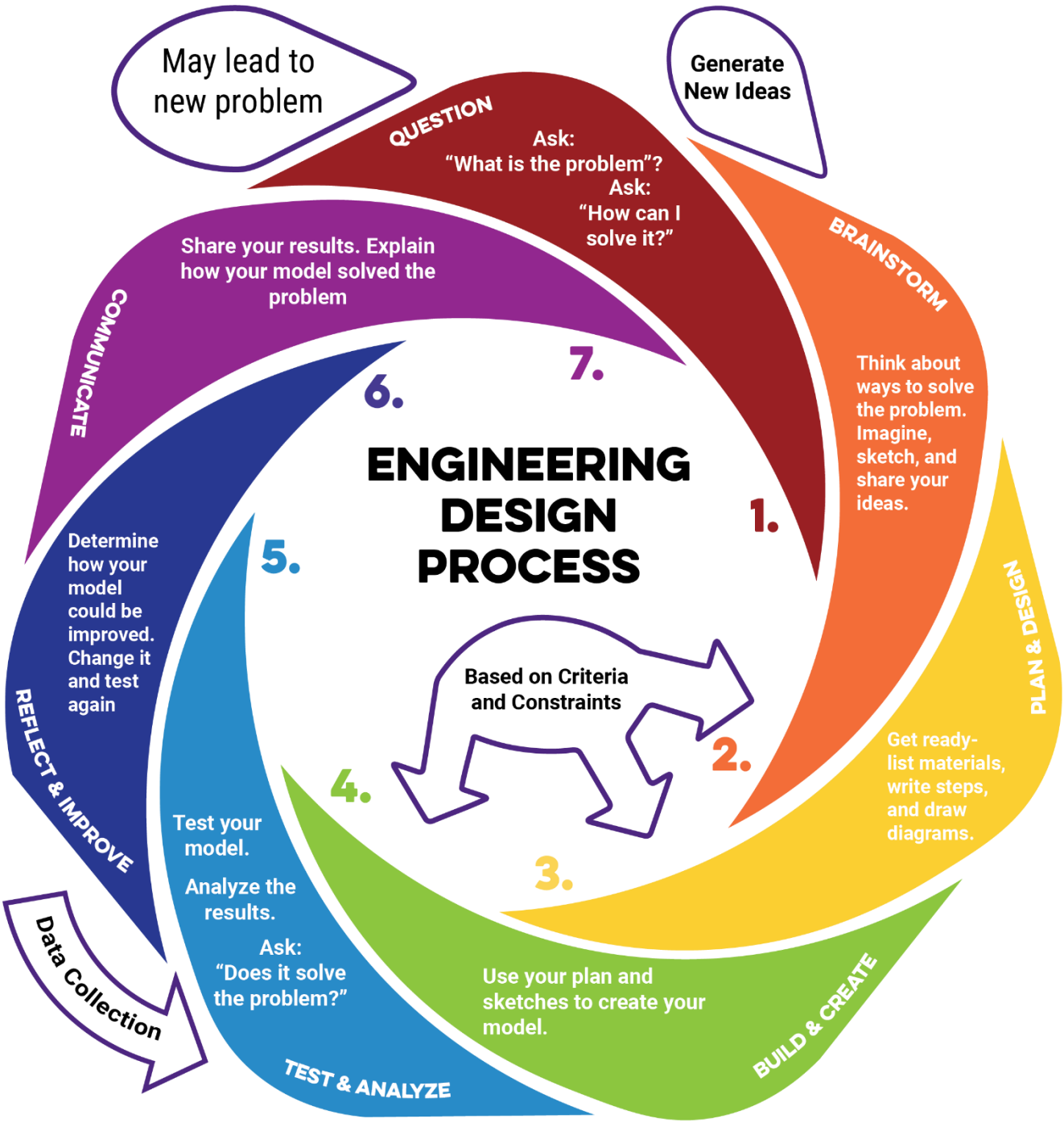
May lead to new problem
Generate New Ideas
QUESTION
Ask: "What is the problem"? Ask: "How can I solve it?"
BRAINSTORM
Think about ways to solve the problem. Imagine, sketch, and share your ideas.
PLAN & DESIGN
Get ready- list materials, write steps, and draw diagrams.
BUILD & CREATE
Use your plan and sketches to create your model.
TEST & ANALYZE
Test your model.
Analyze the results.
Ask: "Does it solve the problem?"
REFLECT & IMPROVE
Determine how your model could be improved. Change it and test again
COMMUNICATE
Share your results. Explain how your model solved the problem
ENGINEERING DESIGN PROCESS
1.
2.
3.
4.
5.
6.
7.
Based on Criteria and Constraints
Data Collection