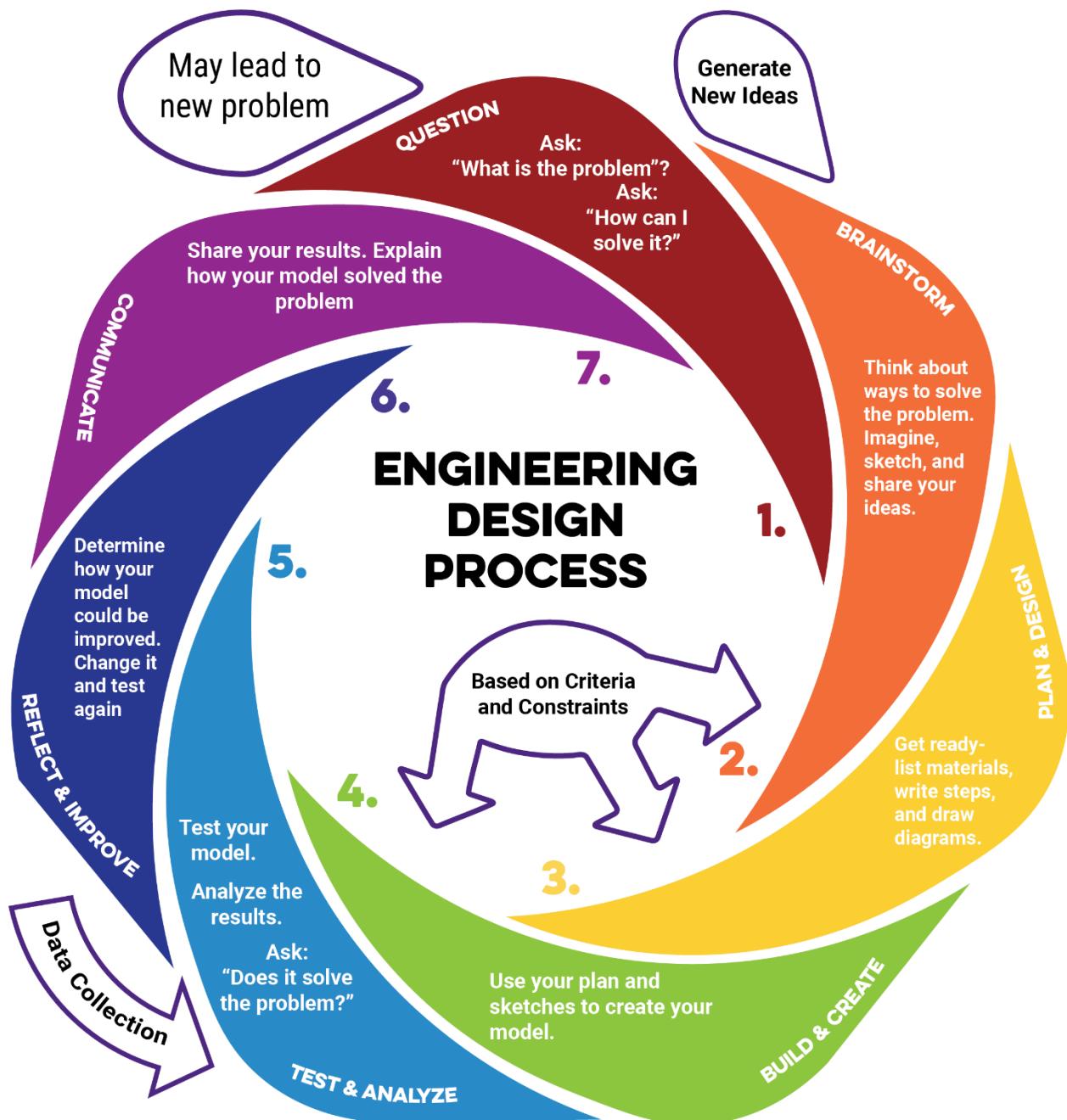


MY CHECKLIST

Directions. Revisit this checklist before moving to the next phase of the Engineering Design Process.



Plan & Design

Check Before Moving On:

- My plan includes at least one drawing of the design.
- My plan includes a model (physical or digital) that represents the design.
- All diagrams are labeled clearly.
- I have listed all required materials, tools, and costs.
- Measurements or dimensions are included and accurate.
- The plan contains clear, step-by-step building instructions.
- The design meets all criteria and works within the constraints.

PLAN & DESIGN

Get ready-
list materials,
write steps,
and draw
diagrams.

3.

Build & Create

Check Before Moving On:

- I followed my plan, drawings, and model during the build process.
- I used materials and tools safely and correctly.
- I documented my build progress (photos, notes, or updated sketches).
- I made adjustments only when necessary and recorded them in my notes.
- I completed a functional prototype that can be tested.

4.

Use your plan and
sketches to create your
model.

BUILD & CREATE

5.

Test & Analyze

Check Before Moving On:

- I tested my prototype using the agreed-upon procedures.
- I measured performance using the original criteria and constraints.
- I collected accurate, organized data during testing.
- I recorded both measurements and observations.
- I can identify strengths and weaknesses in my design based on evidence.

Test your model.

Analyze the results.

Ask:
"Does it solve the problem?"

TEST & ANALYZE

6.

Reflect & Improve

Check Before Moving On:

- I reviewed my test data and identified specific strengths in my design.
- I identified weaknesses or problems backed by evidence.
- I proposed at least one targeted improvement for each major weakness.
- I updated my plan, drawing, or model to reflect the changes.
- I am ready to rebuild or adjust my prototype for the next test or final presentation.

Determine
how your
model
could be
improved.
Change it
and test
again

REFLECT & IMPROVE



Share your results. Explain how your model solved the problem

7.

Communicate

Check Before Moving On:

- I explained the original problem and why it matters.
- I described my criteria, constraints, and how they shaped my design.
- I shared my brainstorming process and initial ideas.
- I showed my plan, drawing(s), and/or model(s).
- I described my building process and any challenges I faced.
- I presented my testing process, data, and results.
- I explained how I improved my design based on evidence.
- I used visuals, demonstrations, or examples to make my presentation clear and engaging.