

STEM ENGINEERING DESIGN PROCESS

ARTSYCRAFTSYMOM.COM

Plan, build, test, improve and reflect like an engineer!

Name: _____ Date: _____ Challenge: _____

PLAN

BUILD

TEST

IMPROVE

REFLECT

1 PLAN

What problem must your structure solve?

Materials I will use:

Draw and label your design:



2 BUILD

What did you build? Did your plan change?

3 TEST

How did you test it?

Result: _____ ☐ Passed ☐ Retry

4 IMPROVE

What failed, bent, tipped or did not work as expected?

What one change will you make, and why?

5 REFLECT

What worked best?

What did you learn about strong structures?

If I tried again, I would

Engineering means learning from every test - even when the first design does not work.

FREE CLASSROOM PRINTABLE