



Engineering Design Process

Name: _____

Date: _____

Grade: Grade 3

Part A: Fill in the Blank

Write the missing word or number on each line.

1. A plan shows the _____ and steps engineers will follow.
2. Before building, engineers make a _____ or drawing of the idea.
3. A _____ shows how a real object might look or work.
4. When engineers _____, they try the design to see if it works.
5. Grade 3 engineers write down _____ during a test.
6. A design that fails gives useful _____ about what to fix.
7. When engineers _____ a design, they change parts to make it better.
8. Going back through the steps to try again is called an _____.
9. Grade 3 teams share their results so other engineers can _____.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Imagine step	→ _____	Try the prototype and record what happens
Plan step	→ _____	List materials and draw a sketch
Test step	→ _____	Think of many possible ideas
Improve step	→ _____	Fix weak parts and try again

Part A: Fill in the Blank

Write the missing word or number on each line.

1. A plan shows the materials and steps engineers will follow.
2. Before building, engineers make a sketch or drawing of the idea.
3. A model shows how a real object might look or work.
4. When engineers test, they try the design to see if it works.
5. Grade 3 engineers write down data during a test.
6. A design that fails gives useful information about what to fix.
7. When engineers improve a design, they change parts to make it better.
8. Going back through the steps to try again is called an iteration.
9. Grade 3 teams share their results so other engineers can learn.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Imagine step	→	<u>Think of many possible ideas</u>	Try the prototype and record what happens
Plan step	→	<u>List materials and draw a sketch</u>	List materials and draw a sketch
Test step	→	<u>Try the prototype and record what happens</u>	Think of many possible ideas
Improve step	→	<u>Fix weak parts and try again</u>	Fix weak parts and try again