ENGINEERING NOTEBOOK MATERIALS

Question	Criteria	Hypothesis or Prediction

Brainstorm

*Leave 1-2 pages blank to record research notes, ideas, etc.

☑ **Prediction Check** Based on new information, has your prediction changed? Circle YES or NO. Write your new prediction/hypothesis.

Plan & Design

Sketch	Process	Materials List

☑ **Prediction Check** Based on new information, has your prediction changed? Circle YES or NO. Write your new prediction/hypothesis.

Build & Create

*Leave 2-3 pages for written notes, observations, & build progress. Consider adding photos of each stage.

Make a prediction …		
Before	**Midway**	**After**

KWHL Chart

Insert Topic: _____

What do I **know**?

K

What do I **want** to know?

W

How will I find the info?

H

What have I **learned**?

L

☑ **Prediction Check** Based on new information, has your prediction changed? Circle YES or NO. Write your new prediction/hypothesis.

Test

*Leave the next 1-2 pages blank to record data using relevant data collection tool (i.e. graph, table, chart, etc.).

☑ **Prediction Check** Based on new information, has your prediction changed? Circle YES or NO. Write your new prediction/hypothesis.

Analyze

*Leave 1-2 pages blank to add a chosen analysis tool where you will use your raw data to visually show what happened during the testing phase.

Dependent Variable(s)	Independent Variable(s)	Constant Variable(s)

Making sense of the Data

1. Did you succeed? Why or why not?

2. Can you point to specific results that show strengths or weaknesses?

☑ **Prediction Check** Based on new information, has your prediction changed? Circle YES or NO. Write your new prediction/hypothesis.

Reflect & Improve

Answer the following:

1. How effective was the prototype?

2. How reliable or efficient was it?

3. How would you improve the design? Draw your new model below.

Communicate

Best Medium

- Slide Presentation
- Journal Article
- Poster Presentation

Why this medium?

Create a mock-up or outline.

*Leave 1-2 pages blank as needed.

Elevator Speech

Synthesize all of your brainstorming from above and draft a 5-10 sentence brief speech.