



Section 4- Design Diary Pages

Problem Understanding

Name _____ Date _____



My Statement of the Challenge

What I Must Produce
to Meet The Challenge

Criteria to Meet and Constraints
to Satisfy

What I Know That Will Help

What I Still Need to Know

Messing About Observations



Name _____

Date _____

Top View

Description
Structure, Behavior, Mechanisms

Side View

What Happened?

My Experiment



Name _____ Date _____

What you want to find out

Data and Sketches

Predict what will happen

My Plan

Hints: Which variables are held constant?
Which factors varied? How many trials?

Hint: Think about what you need to display.

Step-by-Step Procedure

Data Summary

Hint: Look for trends and patterns you see in
your data.

What Did You Learn

Pin-up Session Notes About: _____

Name _____ Date _____



Design or Group	Key Parts of Solution	How Parts Satisfy Criteria	Additional Notes or Sketches

Interesting Ideas

Testing My Design _____



Name _____ Date _____

Each time you have a design idea, you need to test it in a fair way and accurate way. Sketch and describe your idea, and describe what and how you are testing it. Tell what you observe and learn. Display the data you collect in ways so that others can understand and learn from your work.

Test for Design # _____

Data

Sketch of Design Being Tested

Modifications Since Last Time

Next Steps

Data Summary (What Happened?)

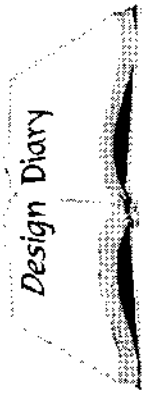
What Did You Learn

Hints

- Do you have rules of thumb for the class?

Name _____
Date _____

My Rules of Thumb



Source (Case or Activity)	Rule of Thumb	Why the Rule Works	Ideas for Using the Rule

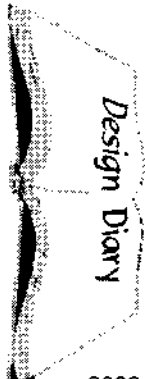
Questions and Learning Issues

Gallery Walk Notes

Name _____

Date _____

Design Iteration _____



What I Learned and Useful Ideas

Design or Group	How Well It Works	Design Ideas	Construction Ideas	Science Ideas
Plans For Our Next Iteration				