

Grade 9 Integrated Technologies

The Design Process: Quick Reference

Mr. Bell & Mr. Brunato (Rev Feb 3, 2011)

Design Challenge (Identify it!)

Identify the problem or situation that requires a solution.

Background (Learn it! Research it!)

Collect information by researching, or use the information that is provided for you.

Learn as much as possible. You may not have to reinvent the wheel.

Details

List the characteristics and performance of the final product that you wish to happen.

Solutions (Think about it! Brainstorm!)

Think outside the box! Come up with as many ideas as possible. Brainstorming is writing down all of your ideas no matter how ridiculous they may seem. You will never know what will work.

Best Solution (Pick it!)

Evaluate your solutions and pick one that you will think that will work best. You may have to make a decision based on what materials are available, what the materials do, etc.

Planning (Plan it!)

Organize what you will do and describe how you will do it. This sometimes involves technical drawings or written instructions. You may have to find materials, or buy materials if you need to.

Production (Make it!)

You are either building something or making something.

This is the hands on aspect of the design problem.

Testing (Test it!)

Does it work?

Evaluate (Judge it!)

How well does it work?

With regards to the design that you created, what would you do differently next time?

What would version 2.0 look like?