

**IDENTIFY,
ANALYZE,
RESEARCH**

**Prepare scale detail and
assembly drawings of
all parts and
sub-assemblies**

**THINK OF
SOLUTIONS**

**Revise and combine ideas
after discussions into a
"final" solution sketch**

**DISCUSS IDEAS
WITH OTHERS**

**Prepare a design layout
drawing to scale from
the final solution sketch**

**Prepare complete
specifications and a
materials list of all
parts**

**Revise detail and assembly
drawings if necessary and
prepare technical illustrations
for manuals and brochures**

**Make individual parts, inspect
parts for accuracy, and assemble
the parts to make a working
prototype or scale model**

**Check assembly of
parts and test the
operation of the
prototype for
accuracy, reliability,
and safety**

