**MATERIAL LIST**

THE ENGINEERING DESIGN PROCESS

**Activity 1**

• Chart paper to create anchor chart of Engineering Design Process

• Activity 1 Worksheet

• Activity 2 Worksheet

THE POWER GENERATOR

**Part 1: What Do You See?**

• High-resolution photos of a generator

• Small post-its (in two colours)

**Part 2: Design and Build a Power Generator**

• Old CDs or DVDs

• Pipe cleaners

• Nuts and bolts

• Beads

• Card board

• Cups

• Glue stick

• Glue gun & glue

• Tape

• Scissors

• Motors – can be purchased at hobby stores for $1 per motor

• 9V Batteries

• LEDs

RUBE GOLDBERG MACHINES

**Part 1: What is that Machine?**

• Rube Goldberg comic without the explanation (more images available at: www.rubegoldberg.com/gallery)

• Observe & Infer handouts provided

• Small post-it notes (in two colors)

**Part 2: Design and Build a Crazy Machine**

(These materials can vary from classroom to classroom, based on the resources available)

• Classroom items: books, markers, math manipulatives, etc.

• Recycled materials: small, medium and large plastic containers, paper tubes, cardboard, water bottles, etc.

• Dollar store items: straws, skewers, dowel, dominoes, marbles, Styrofoam balls, paper clips, etc.

• Other items: small balls, marbles, dominoes, Lego, snap cubes, tape, glue, scissors, rulers, pencils, etc.