

Shopping List for the Free Teleclass with Supercharged Science

Re-ignite your curiosity and spark new ideas! Materials you'll need to get before the next class:

Chemistry Magic Show Teleclass

- water source (use a sink or full water bottle)
- starch packing peanut (the kind that dissolves in water) OR a smidge of cornstarch
- hydrogen peroxide (3% solution)
- distilled white vinegar
- six disposable *clean* cups
- six medicine droppers or six 5mL syringes
- clean popsicle sticks
- sodium thiosulfate (order 30g from Home Science Tools #CH-NA2S2O3)
- potassium iodine (order 15g from Home Science Tools #CH-KI)
- Epsom salt (magnesium sulfate)
- Table salt (sodium chloride)
- Salt substitute (potassium chloride)

Electricity Teleclass

- AA battery case (Radio Shack # 270-408)
- two AA batteries for your battery case (cheap dollar-store "heavy duty" type are perfect)
- LEDs (Radio Shack part #276-026, 276-012, 276-016, 276-311, or any under 3V)
- Alligator wires (Radio Shack #278-1157)
- 1.5-3V DC motor (Radio Shack #273-223)
- buzzer (Radio Shack #273-053) or siren (#273-079)

Burglar Alarms Teleclass

- stuff from Electricity Teleclass (listed above)
- 1" x 1" square of squishy foam (like a thin sponge) that reforms into shape when released
- transparent tape (like Scotch tape)
- 2" x 2" piece of aluminum foil
- 2 large paper clips

Sonic Vibrations Teleclass

- 3 tongue-depressor size popsicle sticks
- 3 rubber bands (3" x 1/2" or similar)
- two 3"x5" index cards
- 3' of string or yarn
- 1" x 8.5" strip cut from a sheet of paper
- scissors, tape, and a hot glue gun

Rocketry Teleclass

- 1 white Fuji film canisters (get them anyplace that still develops film) – black Kodak ones will NOT work!
- 4 (or more) effervescent tablets (generic brands or expired tablets work just fine)
- Full bottle of water
- Two sheets of 8.5 x 11" paper (regular copy paper, not construction paper!)
- 2 rubber bands (3" x 1/4" or similar)
- Scissors, and countdown timer (we'll be setting this to count for 5 minutes)

Lasers Teleclass

- 1 red laser pointer (laser pen or keychain laser)
- 1 CdS cell (Radio Shack part #276-1657)
- crystal-cut pieces (plastic or glass)
- old CD and stuff from Electricity Teleclass

Roller Coaster Physics Teleclass

- 4 pieces of 3/4" x 6' pipe insulation
- 1 roll masking tape
- 10 marbles
- Bucket with handle, filled halfway with water

Aerodynamics

- 4 sheets of 8.5x11" paper
- 2 index cards
- 2 identical paper cups
- 7 rubber bands
- 2 small paper clips
- Scissors, tape

Robotics

- Foam block (2" cube or larger)
- 1 wooden clothespin
- 10 wooden skewers
- Drill & bit the size of the motor shaft diameter
- Stuff from Electricity Teleclass (with motor)
- Hot glue gun, razor and adult assistant

Astronomy/Astrophysics

- 3' string, several small rocks, sharp pencil, marble, tape, and a sheet of paper