Experiments Supply List

Day 1 WHAT'S UP? FOR DEMO 1 Regular golf ball Plastic golf ball	☐ One 1½-inch pom-pom ☐ Masking tape ☐ Ruler ☐ Saw or carpet knife Day 4 SPRING THING
FOR DEMO 2 □ 2 similar latex balloons, one filled with air, the other filled with helium □ Two 4-foot lengths of string or ribbon □ Masking tape □ Balloon weight □ 2 pieces of paper for each student LIGHT & DARK □ 4½ x 9-inch piece of blackout fabric per student	FOR DEMONSTRATION ☐ Sheet of paper ☐ Newton's Cradle from Day 2 FOR EACH STUDENT ☐ 1 cat spring toy ☐ One 3½ x ¼-inch non-latex rubber band (any size between 2½ to 4-inch length by ½ to ¼-inch width) ☐ One 2 x ¼-inch wooden dowel (or similar-sized item)
 Duct tape Fabric marker (pick a color that's easy to see on the fabric) Empty paper towel tube or any cylinder up to 2 inches in diameter 	BALLOON JOUSTING FOR DEMONSTRATION ☐ Sheet of paper ☐ Newton's Cradle from Day 2
Day 2	FOR EACH STUDENT ☐ 1 balloon (beware of latex allergies)
NEWTON'S CRADLE (per table) ☐ 4 ¾ x 6-inch wooden dowels ☐ One 5 x 5 x ¼-inch or greater piece of craft wood ☐ 8 jumbo craft sticks (6 if you are using wood glue instead of glue dots) ☐ 16 ¾-inch permanent glue dots or wood glue ☐ Tape (masking or duct) or wood glue ☐ Masking tape ☐ 2 golf balls	FOR EACH STATION One 10-foot length of string 2 plastic drinking straws Painter's tape or other low adhesive tape 2 helpers to hold string ends 2 balloon pumps (optional) Day 5
☐ Two 14-inch lengths of string (non-stretchy) ☐ Two 5½-inch lengths of approximately 0.3-inch-wide	•
☐ Two 14-inch lengths of string (non-stretchy) ☐ Two 5½-inch lengths of approximately 0.3-inch-wide duct tape (Standard duct tape is 1.88 inches wide. Cut one piece into 6 narrow strips.)	TESTS OF STRENGTH FOR EACH STUDENT
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□ Two 5½-inch lengths of approximately 0.3-inch-wide duct tape (Standard duct tape is 1.88 inches wide. Cut one piece into 6 narrow strips.) GOIN' IN CIRCLES FOR DEMONSTRATION	TESTS OF STRENGTH FOR EACH STUDENT ☐ 1 flat sheet of copy paper ☐ 1 fan-folded sheet of copy paper ☐ 2 supports that are approximately 2 inches tall (boxes books, etc.)
□ Two 5½-inch lengths of approximately 0.3-inch-wide duct tape (Standard duct tape is 1.88 inches wide. Cut one piece into 6 narrow strips.) GOIN' IN CIRCLES FOR DEMONSTRATION □ 1 ball FOR EACH STUDENT □ 1 large paper plate with a smooth, raised edge □ 1 marble	TESTS OF STRENGTH FOR EACH STUDENT ☐ 1 flat sheet of copy paper ☐ 1 fan-folded sheet of copy paper ☐ 2 supports that are approximately 2 inches tall (boxes books, etc.) ☐ 1 foam or paper bowl or cup FOR EACH STATION ☐ 1 container of approximately 50 marbles BATTERING RAM
 □ Two 5½-inch lengths of approximately 0.3-inch-wide duct tape (Standard duct tape is 1.88 inches wide. Cut one piece into 6 narrow strips.) GOIN' IN CIRCLES FOR DEMONSTRATION □ 1 ball FOR EACH STUDENT □ 1 large paper plate with a smooth, raised edge 	TESTS OF STRENGTH FOR EACH STUDENT ☐ 1 flat sheet of copy paper ☐ 1 fan-folded sheet of copy paper ☐ 2 supports that are approximately 2 inches tall (boxes books, etc.) ☐ 1 foam or paper bowl or cup FOR EACH STATION ☐ 1 container of approximately 50 marbles BATTERING RAM FOR EACH BATTERING RAM (Note: You can reuse the Newton's Cradle frames from Day 2.) ☐ 4 ¾ x 6-inch wooden dowels
□ Two 5½-inch lengths of approximately 0.3-inch-wide duct tape (Standard duct tape is 1.88 inches wide. Cut one piece into 6 narrow strips.) GOIN' IN CIRCLES FOR DEMONSTRATION □ 1 ball FOR EACH STUDENT □ 1 large paper plate with a smooth, raised edge □ 1 marble Day 3 FORCE FIELD □ Baseball and bowling ball (or other heavier ball) □ Painter's tape	TESTS OF STRENGTH FOR EACH STUDENT ☐ 1 flat sheet of copy paper ☐ 1 fan-folded sheet of copy paper ☐ 2 supports that are approximately 2 inches tall (boxes books, etc.) ☐ 1 foam or paper bowl or cup FOR EACH STATION ☐ 1 container of approximately 50 marbles BATTERING RAM FOR EACH BATTERING RAM (Note: You can reuse the Newton's Cradle frames from Day 2.)