

Lesson	Technical Needs (all lessons need an Overhead Projector if a computer and LCD are unavailable)	Materials teacher needs to Supply and Materials supplied in kit
Lesson 1: How Can a Gecko Walk on a Ceiling?	<p>Teacher Computer with internet access Software: Microsoft Power Point, Word, Adobe Reader, Web Browser, Windows Media/Quicktime, Flash Player</p> <p>LCD Display, Screen or Wall to project</p>	<ul style="list-style-type: none"> • Multiple colors of pens or pencils (optional) • Overhead Projector if Computer and LCD are unavailable
Lesson 2: What Do We Mean When We Speak About Surfaces in Contact?	<p>Teacher Computer with internet access Software: Microsoft Power Point, Word, Adobe Reader, Web Browser, Windows Media/Quicktime, Flash Player</p> <p>LCD Display, Screen or Wall to project</p>	<ul style="list-style-type: none"> • Tempera paint and rollers, or finely ground dark sidewalk chalk (purple or blue work best), or ground-up charcoal • Tray or container to hold chalk (old baking trays, kitty litter boxes) • Old shoes (or students' shoes that they don't mind getting dirty) • Original graph paper (not photocopied) or graph paper on Goldenrod
Lesson 3: What Are Your Ideas About Small Sizes?	<p>Teacher Computer with internet access Software: Microsoft Power Point, Word, Adobe Reader, Web Browser, Windows Media/Quicktime, Flash Player</p> <p>LCD Display, Screen or Wall to project</p> <p>Student Access to computers with internet access Web Browser, Windows Media/Quicktime, Flash Player</p>	
Lesson 4: What Do We Learn When We Look More Closely?	<p>Teacher Computer with internet access Software: Microsoft Power Point, Word, Adobe Reader, Web Browser, Windows Media/Quicktime, Flash Player</p> <p>LCD Display, Screen or Wall to project</p>	<ul style="list-style-type: none"> • Transparent tape
Lesson 5: What Types of Forces Can Hold Objects Together?	<p>Teacher Computer with internet access Software: Microsoft Power Point, Word, Adobe Reader, Web Browser, Windows Media/Quicktime, Flash Player</p> <p>LCD Display, Screen or Wall to project</p> <p>Overhead Projector for Teacher Demonstration</p>	<ul style="list-style-type: none"> • Magnets, Paperclips, Plastic Transparency, Suction Cups, Fur or Wool, Balloon, and/or Styrofoam™ Plate, Paper Pieces, Beaker of Water, Paper Towel, Washers, Velcro®, Transparent Tape • Optional: Lego™, magnet, water, hand, suction cups, table top, Play-doh™, clay, plastic lid

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		(with raised surface –like lettering)
Lesson 6: How MUCH Force Is Needed to Make an Object Stick? What Factors Affect the AMOUNT of Force Acting on an Object?	Teacher Computer with internet access Software: Microsoft Power Point, Word, Adobe Reader, Web Browser, Windows Media/Quicktime, Flash Player LCD Display, Screen or Wall to project	<ul style="list-style-type: none"> • For each team of Students: single hole punch, ruler, protractor, duct tape • transparent tape • 50 N Spring Scale
Lesson 7: How Do We Measure Forces at the Nanoscale Level? Why Is Merely Looking not Enough?	Teacher Computer with internet access Software: Microsoft Power Point, Word, Adobe Reader, Web Browser, Windows Media/Quicktime, Flash Player LCD Display, Screen or Wall to project	<p>For Each Team:</p> <ul style="list-style-type: none"> • 4x4x2 inch cardboard box with lid • One white vinyl coated paperclip • Fine tipped permanent markers (three colors) • One centimeter plastic cubes • Glue • Scan Paper (Grid found in Student Journal) • Refrigerator Magnet (and a magnetic strip to serve as a probe)
Lesson 8: How Can a Gecko Walk on a Ceiling?	Teacher Computer with internet access Software: Microsoft Power Point, Word, Adobe Reader, Web Browser, Windows Media/Quicktime, Flash Player LCD Display, Screen or Wall to project	