

Materials Details Page:

<p><u>ENGAGE 1:</u> For the class:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A paper bag containing a secret object, with each bag labeled separately A-E <input type="checkbox"/> A Square wooden block <input type="checkbox"/> B Air-filled balloon <input type="checkbox"/> C Cotton ball <input type="checkbox"/> D Large marble <input type="checkbox"/> E Flashlight <p>For each student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Science Journal <p><u>ENGAGE 2:</u> For each group</p> <ul style="list-style-type: none"> <input type="checkbox"/> A set of film cans numbered 1-7, containing: <ul style="list-style-type: none"> <input type="checkbox"/> Can #1 Marble <input type="checkbox"/> Can #2 Paperclips <input type="checkbox"/> Can #3 Ring Magnets <input type="checkbox"/> Can #4 Sand <input type="checkbox"/> Can #5 Air (empty, but spray inside of can with perfume) <input type="checkbox"/> Can #6 Cotton Ball <input type="checkbox"/> Can #7 Water <p>For each student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Science Journal and/or <input type="checkbox"/> "Closed Mystery Cans" Record sheet <input type="checkbox"/> "Three Groups of Materials" Record sheet <p>For the class:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Transparency of Guiding Questions <p><u>Explore 1:</u> For the student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Science Journal and/or <input type="checkbox"/> "Open Mystery Cans" Record sheet <input type="checkbox"/> "Three Groups of Materials" Record sheet <p>For the class:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Materials used from previous lesson <p><u>Explain 1:</u> For the class:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Transparency of Guiding Questions <p>For each student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Science Journal and/or <input type="checkbox"/> Record sheet from "Open Mystery Can" Lesson 	<p><u>Explain 2:</u> For the class:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Transparency of Guiding Questions <input type="checkbox"/> Play dough in a container <input type="checkbox"/> Marble <input type="checkbox"/> 3 Trays <input type="checkbox"/> 8 Plastic Water Bottles (same size) <input type="checkbox"/> Water <input type="checkbox"/> 4 Clear Plastic Cups <input type="checkbox"/> Sand <input type="checkbox"/> Paper Towels <input type="checkbox"/> Pennies <input type="checkbox"/> Envelope <input type="checkbox"/> Sealed quart-sized plastic bags <input type="checkbox"/> 10-20 Flexible Straws <p><u>Explain 3:</u> For the class:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Matter Cards <input type="checkbox"/> Chart Paper <p>For each student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Science Text <p><u>Explain 4:</u> For the class:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Masking Tape <input type="checkbox"/> Meter Stick <p>For each student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Science Text <input type="checkbox"/> Science Journal <p><u>ELABORATE 1:</u> For each student:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Science Journals <input type="checkbox"/> Stick To It! Data Sheet <input type="checkbox"/> Scientific Lab Sheet <p>For the class:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Transparency of Guiding Questions (continued on next page)
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ELABORATE 1 cont.:

For the teacher:

Teacher Demonstrations

Flying Paper Clips

- Empty, Short Can (Metal, Iron or Tin)
- Small Paperclip
- Tape
- Thread
- Yarn or String
- Strong Ring Magnet
- 3x5 Index Card
- Overhead of Directions Page
- Centimeter Ruler

Which Magnet is the Strongest?

- Paperclip
- Centimeter Ruler
- Bar Magnet
- Horseshoe Magnet
- Ring Magnet
- Overhead of Directions Page

For each group:

Stick To It!

- Directions Page
- Plastic Baggie
- Penny
- Iron Filings
- Empty Petri Dish
- Paperclip
- Safety Pin
- Iron Nail
- Aluminum Foil
- Brass Tack
- Twist Tie
- Rubber Band
- Toothpick
- Tray
- Magnet

Push or Pull?

- Bar Magnets
- Directions Page
- Ring Magnets
- Ring Magnet Holder

The Special Rock

- Magnetite
- Directions Page
- Plastic Baggie
- Toothpick
- Paperclip
- Penny
- Iron Nail

ELABORATE 2:

For the class:

- Transparency or
- Poster of Tools Concept Map
- What Makes A Magnet?*

For each student:

- Science Journals

ELABORATE 3:

For each group or teacher:

- Bar Magnet
- Needle
- Two Corks or Foam Plastic
- Bowl of Water
- Black Marker
- Compass

For each student:

- Science Journals

For the class:

- What Makes A Magnet?*
- Magnetite
- Thread

EVALUATE 1:

For each student:

- Performance Assessment Sheet
- Rubric

For each group:

- 3 Plastic Jars
- Bar Magnet
- Sand
- 3 Paperclips
- Water
- Iron Filings

EVALUATE 2:

For each student:

- Unit Assessment

For the teacher:

- Answer Key

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