# UNIT ONE • Water

1. Sinking bottle .................. 10
2. Floating soda .................. 11
3. Moving pepper .................. 12
4. Floating chips .................. 13
5. Sink or float? .................. 14
6. Waterproof? .................. 22
7. Magic drawing .................. 24
8. Does it mix? .................. 26
9. Colored balls .................. 28
10. Ocean in a bottle .................. 29
11. Soak it up .................. 30
12. Shake and wait .................. 32
13. Clean or dirty? .................. 36
14. Wet or dry? .................. 38
15. Boat race .................. 39
UNIT TWO • Air

1 Making bubbles ............... 42
2 Flying balloon ............... 43
3 Bubble up ............... 44
4 Dancing raisins ............... 45
5 Moving water ............... 46
6 Sipping air ............... 48
7 Is it dry? ............... 50
8 Up or down? ............... 52
9 Helicopter ............... 54
10 Ball race ............... 56
## UNIT THREE • Light

<table>
<thead>
<tr>
<th></th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Light box</td>
<td>58</td>
</tr>
<tr>
<td>2</td>
<td>Can you see the light?</td>
<td>60</td>
</tr>
<tr>
<td>3</td>
<td>Picture box</td>
<td>62</td>
</tr>
<tr>
<td>4</td>
<td>Moving pictures</td>
<td>64</td>
</tr>
<tr>
<td>5</td>
<td>Reflecting light</td>
<td>65</td>
</tr>
<tr>
<td>6</td>
<td>Spinning colors</td>
<td>67</td>
</tr>
<tr>
<td>7</td>
<td>Shadows</td>
<td>69</td>
</tr>
</tbody>
</table>
UNIT FOUR • Sound

1. Loud or quiet? .................. 72
2. Jumping sugar .................. 74
3. Do you hear it? .................. 75
4. Guess what it is .................. 77
5. Musical ruler .................. 80
6. Musical bottles .................. 81
7. Telephone .................. 83
8. Megaphone .................. 85
UNIT FIVE  • Gravity

1  Friction  .........................  88
2  Does it roll?  ....................  90
3  Which hits first?  ..............  94
4  Which is faster?  ...............  95
5  Make it roll  .....................  96
6  Falling keys  ....................  104
UNIT SIX • Magnets

1. Magnet pick-up ............... 106
2. Static electricity ............... 114
3. Compass and magnet ........... 115
4. Runaway car .................. 116
5. Magnet magic ................ 117
6. Paperclip pick-up ............. 118
1 Sinking bottle

**Materials**
- water
- pan
- bottle with water in it
- bottle without water in it

**Directions**
1. Pour water into the pan up to the line.
2. Put the bottle with water in the pan.
3. Put the bottle without water in the pan.

**Observation**
- Both bottles fall to the bottom.
- The bottle without water floats.
Materials

- soda
- diet soda
- tub
- water

Directions

1. Put the soda and diet soda in the tub.
2. Pour water into the tub up to the fill line.

Observation

- The soda and diet soda do not float.
- The diet soda floats.
5 Magnet magic

Materials
- little table
- magnet
- paperclips

Directions
1. Set up the little table.
2. Put the magnet under the little table.
3. Put the paperclips on the little table.
4. Rub the magnet underneath the table.

Observation
- The paperclips move.
- The paperclips do not move.
**Paperclip pick-up**

**Materials**
- paperclips
- 2 magnets
- 2 number lines
- paper
- marker

**Directions**

1. Put the paperclips on the table.
2. Pick up the paperclips with your magnet.
3. Count the paperclips that are on your magnet.
4. Write the number.

**Observation**

- Partner A has more paperclips.
- Partner B has more paperclips.