**DNA Extraction**

Recommended group size: 2–3

Number of Students: [ ]  Number of Groups: [ ]

<table>
<thead>
<tr>
<th>Supplies</th>
<th>Amount Needed</th>
<th>Supplies on Hand</th>
<th>Supplies Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>strawberries</td>
<td>1 per group</td>
<td></td>
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<tr>
<td>sealing plastic bags (e.g., Ziploc™)</td>
<td>1 per group</td>
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<tr>
<td>liquid dish soap</td>
<td>½ teaspoon per group</td>
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<tr>
<td>99% isopropyl alcohol (or lower, e.g., 70% rubbing alcohol)</td>
<td>¼ cup per group</td>
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<tr>
<td>meat tenderizer OR papaya or pineapple juice</td>
<td>1 tablespoon per class OR ¼ cup juice per class</td>
<td></td>
<td></td>
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<tr>
<td>salt</td>
<td>1 tablespoon per class</td>
<td></td>
<td></td>
</tr>
<tr>
<td>tall, clear, narrow plastic cups (8 oz. or 12 oz.)</td>
<td>2 per group</td>
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<td></td>
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<tr>
<td>teaspoon measure</td>
<td>1 per group</td>
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<tr>
<td>pop-top squeeze bottles (e.g., water or sports drink)</td>
<td>1 per group</td>
<td></td>
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<tr>
<td>freezer or bucket of ice</td>
<td>1 per class</td>
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</tbody>
</table>

**Extension A**

source of animal DNA (calf liver or thymus work well) | ½ cup per class |              |
| blender | 1 per class |              |

**Extension B**

other sources of DNA (wheat germ, spinach, peas, onions, broccoli, bananas, zucchini) | 1–2 cups per class |              |
| blender | 1 per class |              |

**Teacher Demonstration**

no extra supplies needed |  |  |