**PHYSICAL AND CHEMICAL PROPERTIES OF DNA!**

3. Double Helix

4. Base Pair

5. Sugar Phosphate Backbone

6. Nucleotides

**Name the ingredients used to extract DNA!**

1. _Saline_
2. _SDS (Soap)_
3. _Ethanol_

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**THE INFORMATION IN DNA!**

Write out your gene sequence.

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAC</td>
<td>TGA</td>
<td>GTG</td>
<td>CTT</td>
<td>GCG</td>
<td>TAA</td>
<td>CCT</td>
<td>GTG</td>
<td>TGA</td>
<td>CGA</td>
<td>TTG</td>
<td>AGG</td>
<td>ACC</td>
<td>CTC</td>
</tr>
</tbody>
</table>

Transcribe your sequence.

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUG</td>
<td>ACU</td>
<td>CAC</td>
<td>GAA</td>
<td>CGC</td>
<td>AUU</td>
<td>GGA</td>
<td>CAC</td>
<td>ACU</td>
<td>GCU</td>
<td>AAC</td>
<td>UCC</td>
<td>UGG</td>
<td>GAG</td>
</tr>
</tbody>
</table>

Using the table below translate your sequence.

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>T</td>
<td>H</td>
<td>E</td>
<td>R</td>
<td>I</td>
<td>G</td>
<td>H</td>
<td>T</td>
<td>A</td>
<td>N</td>
<td>S</td>
<td>W</td>
<td>E</td>
</tr>
</tbody>
</table>

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**HUMAN GENOME PROJECT**

**What is a genome?**

All the DNA within an organism.

**What is DNA sequencing?**

Reading the order of nucleotides in a DNA molecule.

**Has the human genome been sequenced?**

Yes! Except for highly repetitive regions.