Comparing iron, sulfur and a mixture of the two

You will be given samples of sulfur powder, iron filings and a mixture of the two.

For the samples in the plastic sample bottles:
- look at each with a magnifying glass
- run a magnet over each of the bottles.

With the samples in small test-tubes:
- warm each sample gently with a small, non-luminous Bunsen flame
- add a little dilute sulfuric acid and warm gently.

On the table
- make a note of your observations
- draw picture diagrams of iron, sulfur and the mixture.
<table>
<thead>
<tr>
<th>Particle picture</th>
<th>Dilute sulfuric acid</th>
<th>Warming</th>
<th>Magnet</th>
<th>Appearance</th>
<th>Iron</th>
<th>Sulfur</th>
<th>Mixture</th>
</tr>
</thead>
</table>

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