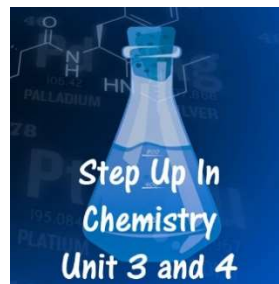


3.6 Corrosion

Problems Worksheet



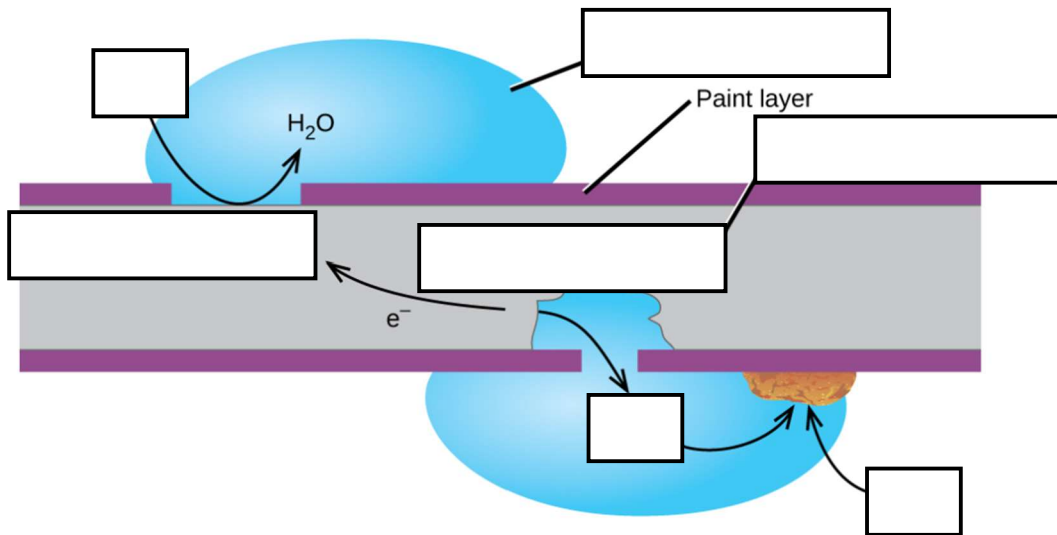
1. Corrosion is the breakdown of materials due to electrochemical processes.
 - a. Describe the oxidation and reduction reactions involved in iron corrosion.

- b. Why does iron act as the reductant (anode) during corrosion?

- c. Explain the role of atmospheric oxygen in the corrosion process.

2. Why are unused aircraft typically stored in the desert?

3. Complete the diagram with O₂, water, iron, cathodic site and anodic site.



4. Explain how coating metal with oil or grease prevents rusting.

5. Explain how galvanising protects steel from corrosion.

6. Explain how a direct current (DC) works in cathodic protection to prevent rusting.