

C6.1.11 Corrosion

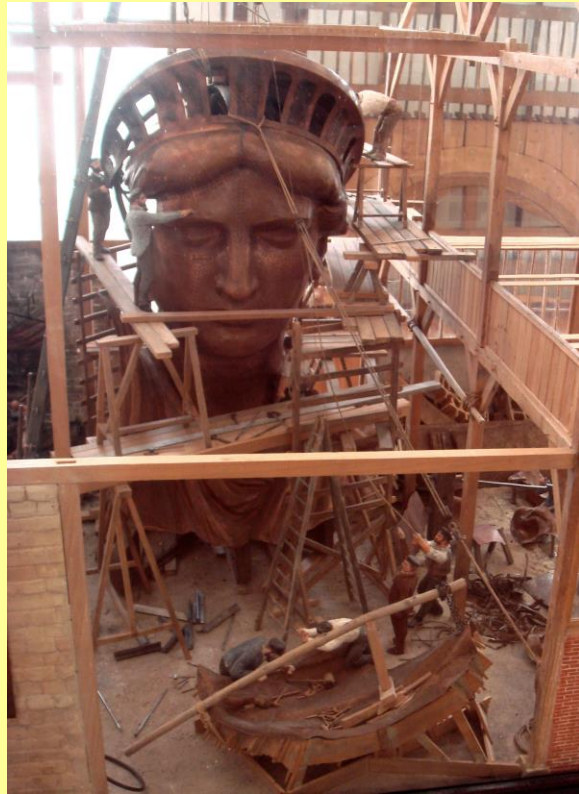
Before we start – what can you remember from previous lessons?

Answer the quiz questions

Learning Objectives

- Describe what corrosion is
- Describe the conditions needed for corrosion

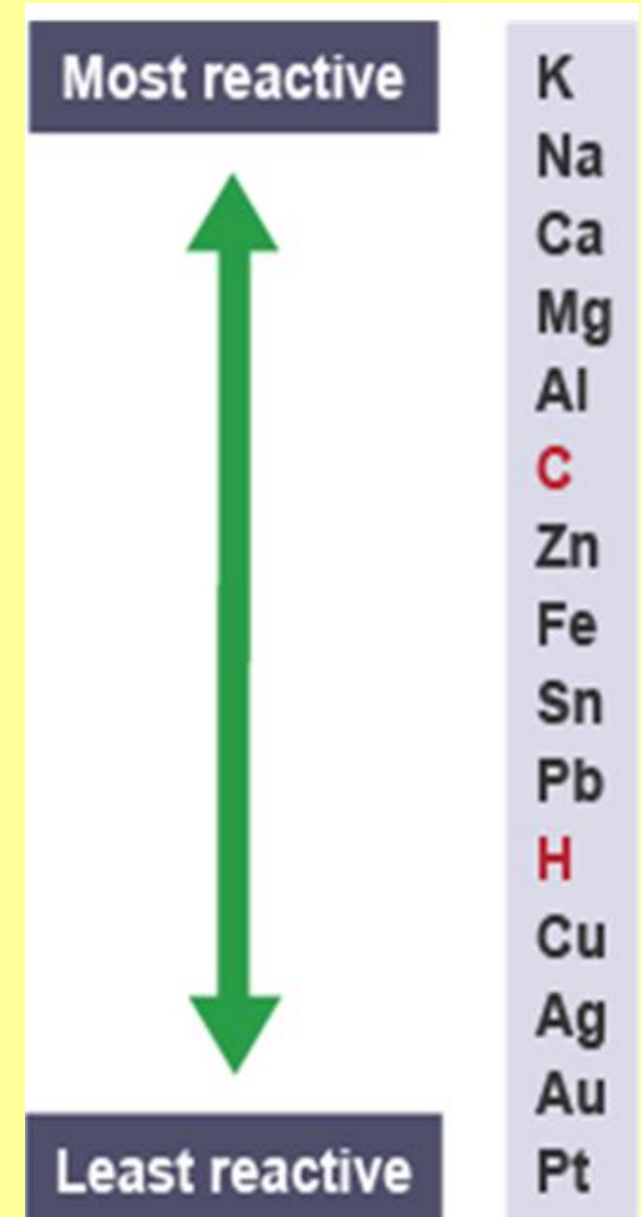
Why has the statue of liberty changed colour?



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Corrosion

- Reaction of a metal with chemicals in its surroundings, such as oxygen in air or water
- Corrosion is more likely if the metal is more reactive



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Rust

A specific example of corrosion (only iron/steel rusts)

iron + oxygen + water --> hydrated iron oxide

↑
rust

Rusting Experiment

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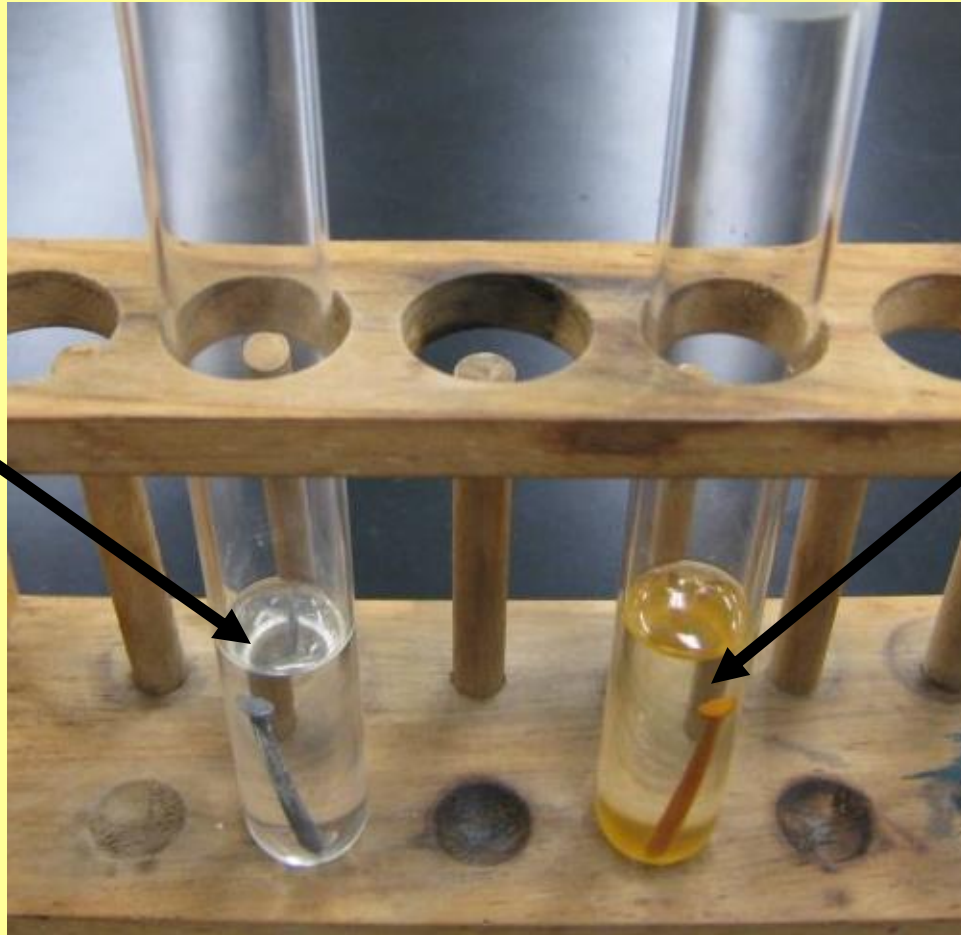
Less rust if:

No water

- Add anhydrous calcium chloride

No air/oxygen

- Boil the water



More rust if:

Water and oxygen present

Salt

- Catalyst

Key questions - answer in your class notes

1. What is corrosion?
2. What is the difference between corrosion and rusting?
3. Write a word equation for rusting

Now answer the quiz questions on this lesson