

## Conditions Which Cause Rusting

1. Water and air and iron combines
2. Iron atoms go into solution giving up ***iron ions***
3. Oxygen dissolves in water forming ***hydroxyl ions***
4. Iron and hydroxyl ions combine to form an insoluble substance called ***iron hydroxide***
5. Iron hydroxide is rapidly oxidized to hydrated iron oxide (rust).
6. The rust that is formed is porous and flaky allowing more air and water to attack the iron.



*A rusted tractor*