

Animation Worksheet: Rust & Corrosion

Name: _____ Date: _____

1. Rust is the result of an _____ corrosion process.
2. The three main elements involved in the formation of rust are _____, water H₂O and _____ (O₂).
3. Atmospheric _____ (CO₂) can dissolve in water present inside or around an engine to increase corrosion.
4. When CO₂ dissolves in water, it reacts to form _____ acid.
5. Although this acid is weak, it lowers the _____ of the water, making it more corrosive to metal parts.
6. Inside an engine, conditions such as _____ and fuel impurities create environments where water is present.
7. The _____ heating and cooling of an engine encourages the formation of moisture.
8. When \$CO_2\$ dissolves in internal water, it creates a _____ electrolyte that attacks iron components.
9. Left unchecked, rust and corrosion can lead to the _____ of critical engine sealing surfaces and passages.
10. Using the proper _____ and maintaining the lubrication system are essential for neutralizing these acidic compounds.