Тихонова Дарья, ИЗм-1-20

We are presented with the text "6 Tips For Preventing Rust". From it we learned the exact definition of rust. Rust is orange-brown flakes of iron oxide that form on the surface of metal when iron reacts with oxygen in the presence of water, saltwater, acids, or other harsh chemicals. In addition to identifying rust we learned about 6 tips for preventing rust:

1) Water is the number one enemy of iron, so it must be kept clean and dry.

2) It is necessary to prevent scratches on the metal because they expose more metal and trap water, allowing it to stay in contact with the iron.

3) Be sure to apply a protective coating, they can also protect metal objects from rust.

4) Use Stainless Steel. Stainless steel alloys contain iron, but it resists rust because it also contains a high percentage of Chromium. Chromium in the alloy oxidizes rapidly, forming a protective layer of chromium oxide on the metal surface, which prevents oxygen from entering the underlying steel.

5) Use Galvanized Metal. The zinc coating acts as a barrier to prevent oxygen and water from entering the steel. Even if the coating is scraped off, the zinc continues to protect the surrounding metal with cathodic protection. Zinc is highly reactive with oxygen and quickly forms a protective zinc oxide coating that prevents further oxidation of iron.

6) Rust spreads quickly, it is important to scrape it off as soon as it appears. Then scrub with warm water and soap and apply a metal conditioner. Apply a new coat of paint to the area if necessary.