

How acids react with metals and carbonates Response sheet – Part 1 Possible responses

Statement	True	Not true	Not sure
All metals react with acids to produce hydrogen gas		√	
Acids are corrosive	√		
Acids let carbon dioxide escape from inside a carbonate		√	
Fizz is just another name for a gas	√		
A gas is always produced in a chemical reaction		√	
When a metal reacts with an acid it vanishes		√	
Hydrogen and carbon dioxide are both gases so they have the same properties		√	
In a chemical reaction a new substance is always made	√		
You can test for carbon dioxide with lime water	√		
We can take carbonate tablets to neutralise acid indigestion	√		

Response sheet – Part 2

Statement	Why I don't think it is true	Other people's ideas
<p>All metals react with acids to produce hydrogen gas</p> <p>Acids let carbon dioxide escape from inside a carbonate</p> <p>A gas is always produced in a chemical reaction</p>	<p>Metals like copper, silver and gold don't react with acids to produce hydrogen</p> <p>Acids react with carbonates to produce carbon dioxide gas.</p> <p>Many reactions do not produce gases. For example, the reaction of an acid with an alkali</p>	
<p>When a metal reacts with an acid it vanishes</p> <p>Hydrogen and carbon dioxide are both gases so they have the same properties</p>	<p>When an acid reacts with a metal they are converted into new substances</p> <p>They have some physical properties which are similar because they are both gasses but they also react very differently. For example, hydrogen burns but carbon dioxide doesn't</p>	