Topic	Tests for ions and gases	Level	GCSE
Outcomes	 To describe the tests for common gases To describe the tests for common cations and ions To identify an unknown ionic compound from its ion tests 		

Name of gas	Formula	Description of test and positive result
hydrogen		
oxygen		
carbon dioxide		
ammonia		
chlorine		

What am I?

- 1. I am diatomic, used in respiration and relight a glowing splint?
- 2. I am produced by respiration and turn lime water cloudy?
- 3. I bleach damp litmus paper and was used in the trenches?
- 4. I am a fuel that can be used in cars, I only produce water when I combust?
- 5. I am made of 4 atoms and turn damp red litmus paper blue?

lon	Flame colour
Li ¹⁺	
Na ¹⁺	
K ¹⁺	
Ca ²⁺	

lon	•	Formula of precipitate
Cl ¹⁻		
Br ¹⁻		
J ¹⁻		

If you're not part of the solution, you're part of the precipitate!

lon	Precipitate colour with NaOH	Formula of precipitate
Cu ²⁺		
Fe ²⁺		
Fe ³⁺		

lon	Test	Positive result
NH ₄ ⁺		
SO ₄ ²⁻		
CO ₃ ²⁻		





