

Year 7 Acids and alkalis fact sheet

| Acids and alkalis | |
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| 1. Give an example of an acid | <ul style="list-style-type: none">• Lemon juice• Vinegar• Hydrochloric acid |
| 2. Give an example of an alkali | <ul style="list-style-type: none">• Soap• Washing up liquid |
| 3. Give an example of a neutral liquid | Water |
| Testing pH | |
| 1. What scale do we use to test if a liquid is acid or alkali? | pH scale |
| 2. Describe how to test the pH of a liquid | <ul style="list-style-type: none">• Put a drop of the liquid onto pH paper• Compare the colour to the chart |
| 3. What colour do acids go with universal indicator? | Red/ orange/ yellow |
| 4. What colour do alkalis go with universal indicator? | Blue/ purple |
| 5. What colour do neutral liquids go with universal indicator? | Green |
| 6. What colour does a strong acid go with universal indicator? | Red |
| 7. What colour does a strong alkali go with universal indicator? | Purple |
| 8. What pH does an acid have? | Between 1-6 |
| 9. What pH does an alkali have? | Between 8 and 14 |
| 10. What pH does a neutral solution have? | 7 |
| 11. What pH does a weak acid have? | 5/6 |
| 12. What pH does a weak alkali have? | 8/9 |
| Indicators | |
| 1. Name the chemical we use to test a liquid to see if it is acid or alkali | Indicator |
| 2. Explain how to tell if a substance is a good indicator | It will turn a different colour in acid, alkali and neutral liquids |

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| Neutralisation | |
|---|--|
| 1. Describe how to neutralise an acid | Add an alkali You should test it with universal indicator to check when it gets to neutral |
| 2. Describe how to neutralise an alkali | Add an acid You should test it with universal indicator to check when it gets to neutral |
| 3. What do we call a reaction which starts with an acid and alkali and ends with neutral substances? | Neutralisation |
| 4. Write the general equation for neutralisation | Acid + alkali → salt + water |
| 5. List some useful neutralisation reactions | <ul style="list-style-type: none"> • Adding acid/ alkali to soil to make it neutral • Treating bee/ wasp stings • Indigestion tablets which neutralise stomach acid • Making salts |
| Making salts | |
| 1. Are salts acid, alkali or neutral? | Neutral |
| 2. What type of reaction makes a salt? | Neutralisation |
| 3. A salt has 2 names. The first name is always a _____ and the second name comes from the _____ used to make the salt. | metal (first name) acid (second name) |
| 6. What type of salts are made from hydrochloric acid? | Chlorides |
| 7. What type of salts are made from nitric acid? | Nitrates |
| 8. What type of salts are made from sulphuric acid? | Sulphates |
| 9. Write a method to make a salt | <ul style="list-style-type: none"> • Mix the acid and base together • Filter to remove unreacted solid • Evaporate the water |