What Should I Already Know?  Differences between solids, liquids and gases. Melting, evaporation, condensation, freezing Melting points, freezing points Water cycle and vocabulary associated with the main stages.  Diagrams  Diagrams  Diagrams  Diagrams  Diagrams  Diagrams  Diagrams  Diagrams  Diagrams  Comparing and grouping materials according to their properties, hardness, magnetic etc. Mixtures and solutions – what are the differences? Experimenting with mixing solids and liquids. Separating a mixture by silving, sorting particle sizes Separating a mixture by filtering e.g. muddy water sible and irreversible changes – freezing, melting, dissolving, burning, rusting  Possible experiments  Possible experiments  Possible experiments  Experiments to find properties of materials, e.g., does it attract to a magnet, can heat pass through it  Design an everyday item loven glove, pan stand based on the properties it would need.  Experiment separating mixtures using graded sieves and filters  What a flaffects the bounciness of balls – wordship and the seversible according to their properties, hardness, magnetic etc. Mixtures the differences? Experimenting with mixing solids and liquids.  Separating a mixture by filtering e.g. muddy water by filtering e.g., muddy water by filtering e		Weston Turville CE School Primary School-Science			
Differences between solids, liquids and gases. Melting, evaporation, condensation, freezing Melting points, freezing points Water cycle and vocabulary associated with the main stages.  Diagrams  Comparing and grouping materials according to their properties, hardness, magnetic etc. Mixtures and solutions – what are the differences? Experimenting with mixing solids and liquids. Separating a mixture by sieving, sorting particle sizes Separating a solution by evaporating Reversible and irreversible changes – freezing, melting, dissolving, burning, rusting  Possible experiments  Possible exp	Strand:Chemistry			Year:5	
Melting, evaporation, condensation, freezing Melting points, freezing points Water cycle and vocabulary associated with the main stages.  Diagrams  Diagrams		Vocabulary	Г		
Mixtures and solutions — what are the differences? Experimenting with mixing solids and liquids.  Diagrams  Not see through Opaque Not see through Conductor (thermal) or electricity magnetic Attracted to mixture Substance are mono dissolving solution Diagrams of materials, e.g. does it attract to a magnet, can heat pass through it  Design an everyday item (oven glove, pan stand based on the properties it would need.  Experiment separating mixtures using graded sieves and filters  Experiment separating mixtures using graded sieves and filters  Powersible  Reversible  Diagrams  Solt Easy to sha solution Can be dissolved in liq insoluble  Transparent See through Conductor (thermal) or electricity magnetic Attracted to mixture Diagrams of Mixture Substance are mono dissolving Solution  Diagrams  Diagrams  Solt Can be dissolved in liq insoluble  Conductor  Dopaque  Not see through Opaque  Substance are mono dissolving Solution  Separate To divide into into into into into into into into	ch like hammer head	Difficult to scratch like	Hard		
Water cycle and vocabulary associated with the main stages.  Diagrams  Diagr	hape like fabric	Easy to shape I	soft	Mixtures and solutions – what are the	
Separating a mixture by sieving, sorting particle sizes Separating a mixture by filtering e.g. muddy water. Separating a solution by evaporating Reversible and irreversible changes – freezing, melting, dissolving, burning, rusting  Possible experiments  Possible experiments  Possible experiments  Possible experiments  Experiments to find properties of materials, e.g. does it attract to a magnet, can heat pass through it  Design an everyday item (oven glove, pan stand based on the properties it would need.  Experiment separating mixtures using graded sieves and filters  What affects the bounciness of balls –  Filter paper  Funnel  Separating a mixture by sieving, sorting particle sizes  Separating a mixture by filtering e.g. muddy water.  Insulator  Filter backers in filters  Transparent  See through Opaque  Not see through Opaque  Insulator  Filter backers in filters  To divide into into into into it water at the separate in particle sizes and filters  Water a subst	n liquid e.g. coffee granules	Can be dissolved in liquid e	solution		Water cycle and vocabulary associated with the main
Separating a mixture by filtering e.g. muddy water.  Separating a solution by evaporating Reversible and irreversible changes – freezing, melting, dissolving, burning, rusting  Possible experiments  Experiments to find properties of materials, e.g. does it attract to a magnet, can heat pass through it  Design an everyday item (oven glove, pan standbased on the properties it would need  Experiment separating mixtures using graded sieves and filters  What affects the bounciness of balls –  What affects the bounciness of balls –	be dissolved	Cannot be dis	insoluble	Separating a mixture by sieving, sorting	
Water. Separating a solution by evaporating Reversible and irreversible changes – freezing, melting, dissolving, burning, rusting  Possible experiments  Experiments to find properties of materials pass through it  Design an everyday item (oven glove, pan stand based on the properties it would need.  Experiment separating mixtures using graded sieves and filters  What affects the bounciness of balls –  What affects the bounciness of balls –  Opaque Not see through conductor (thermal) or electricity magnetic Attracted to mixture Substance are m no dissolving.  Separate To divide into Separate e.g. sand if Evaporate Liquid turns to get the condensation for materials to a magnet, can heap pass through it  Design an everyday item (oven glove, pan stand based on the properties it would need.  Experiment separating mixtures using graded sieves and filters  What affects the bounciness of balls –	ugh – like glass	See through – I	Transparent		Diagrams
Reversible and irreversible changes – freezing, melting, dissolving, burning, rusting    Conductor   (thermal) or electricity	ough – like wood	Not see through -	Opaque	water.	Gravel
Filter paper  Filter paper  Funnel  Funnel  Funnel  Funnel  Final  Substance are mon dissolving  solution  Final  Filter  Separate  Filter  Final  Filter  Final  F	hat will allow heat electricity through	(thermal) or electri	Conductor	Reversible and irreversible changes –	Signs
Filter paper  Funnel  Finance  Filter paper  Funnel  Funnel  Finance  Filter paper  Funnel  Funnel  Filter paper  Freeze  Freeze  Freeze  Freeze  Freeze  Freeze  Cod  Mathematical paper  Freeze  Freeze  Freeze  Cod  Mathematical paper  Freeze  Freeze  Freeze  Cod  Mathematical paper  Freeze  Freeze  Cod  Mathematical paper  Freeze  Freeze  Freeze  A change that can paper  Reversible  Reversible  Freeze  A change that can paper  Reversible  Freeze  Freeze  Cod  A change that can paper  Reversible  Freeze  Freeze  Cod  A change that can paper  Reversible  Freeze  Freeze  Cod  Mathematical paper  Freeze  Freeze  Freeze  A change that can paper  Reversible  Freeze  Freeze  Freeze  Cod  Mathematical paper  Freeze  Freez	will not allow heat or icity through		Insulator	freezing, melting, dissolving, burning, rusting	Sieve State of the
Filter paper  Funnel  Funnel  mixture  mixture  mixture  solution  solution  Substance are m no dissolving  When a substance liq  Separate  Filter  Substance are m no dissolving  When a substance  solution  Filter  Substance are m no dissolving  When a substance  Filter  Substance are m no dissolving  Substance are m no dissolving  When a substance  Filter  Substance are m no dissolving  Substance are m no dissolving  When a substance  Filter  Substance are m no dissolving  Substance are manus and solution  Filter  Substance are manus and solution	d to a magnet	Attracted to a	magnetic		
Possible experiments  Experiments to find properties of materials, e.g. does it attract to a magnet, can heat pass through it  Design an everyday item (oven glove, pan stand based on the properties it would need.  Experiment separating mixtures using graded sieves and filters  When a substance liq Separate  Filter  Separate  Filter  Evaporate  Evaporate  Liquid turns to go melt  Solid becomes liq  condensation  Gas becomes liq  Reversible  Reversible  Reversible	e mixed together with ving taking place		mixture		
Possible experiments  • Experiments to find properties of materials, e.g. does it attract to a magnet, can heat pass through it  • Design an everyday item (oven glove, pan stand based on the properties it would need.  • Experiment separating mixtures using graded sieves and filters  • What affects the bounciness of balls –	ance dissolves into a liquid		solution	gas	
Possible experiments  • Experiments to find properties of materials, e.g. does it attract to a magnet, can heat pass through it  • Design an everyday item (oven glove, pan stand based on the properties it would need.  • Experiment separating mixtures using graded sieves and filters  • What affects the bounciness of balls –	to individual parts	To divide into indi	Separate	© 2013 Encyclopaedia Britannos, inc.	
<ul> <li>Experiments to find properties of materials, e.g. does it attract to a magnet, can heat pass through it</li> <li>Design an everyday item (oven glove, pan stand based on the properties it would need.</li> <li>Experiment separating mixtures using graded sieves and filters</li> <li>What affects the bounciness of balls –</li> </ul> Evaporate <ul> <li>Liquid turns to get condensation</li> <li>Gas becomes liquid turns to get condensation</li> <li>Reversible</li> </ul>	ate solid from liquids and from water.		Filter	Descible compaignments	Sand
materials, e.g. does it attract to a magnet, can heat pass through it  Design an everyday item (oven glove, pan stand based on the properties it would need.  Experiment separating mixtures using graded sieves and filters  What affects the bounciness of balls –  Freeze  Liquid become condensation  melt  Solid becomes liquid become condensation  Freeze  Condensation  Reversible  A change that can be condensation  Reversible	o gas when heated	Liquid turns to gas	Evaporate	·	
stand based on the properties it would need.  Experiment separating mixtures using graded sieves and filters  What affects the bounciness of balls –	mes a solid due to cooling	Liquid becomes a cooling	Freeze	materials, e.g. does it attract to a magnet, can heat pass through it	
Filter paper  Punnel  Funnel  Pilter paper  Separating mixtures using graded sieves and filters  What affects the bounciness of balls –  Condensation  Gas becomes liquidation original and condensation or condensation or condensation original and condensation original and condensation original and condensation or	liquid due to heating	Solid becomes liquid	melt	Design an everyday item (oven glove, pan stand based on the properties it would	Sand
graded sieves and filters  Funnel  Graded sieves and filters  What affects the bounciness of balls –  Reversible  Original	liquid due to cooling	Gas becomes liquid	condensation	need.	Filter paper
	t can be returned to ginal form	A change that can boriginal fo	Reversible	graded sieves and filters	Funnel
	anent change	A permanent	Irreversible	own question and experiment to answer	3
	es combine and react	When substances cor to cause a new ma			Beaker
Filtered water  Filtered water  Filtered water  Filtered water  Filtered water	e to a change e.g.	Created due to a burning		vinegar and bicarbonate of soda.	Filtered water
Experiment with burning and rusting —      Production of now materials      Dissolve      Become incorporations	orated into a liquid to		Dissolve		
Properties A specific quali	uality of something	A specific quality of	Properties		

Question 1 – solids will	Start	End
always -		
Flow		
Take up the shape of their container		
Have tightly packed molecules		
Expand in water		

Question 2 - Thermal insulators	Start	End
will:		
Keep things dry		
Keep things warm		
Heat up water		
Let out heat		
I .	1	1

Question 3 - Absorb means :	Start	End
Heat up		
Cool down		
Let through		
Soak up		

Question 4 - What would	Start	End
you use to separate solids?		
Sieves		
Drills		
Filters		
Presses		

Question 5 - Filter paper	Start	End
contains:		
Absorbent fibres		
Water proofing		
Microscopic holes		
Cotton woo		

Question 6 - When a	Start	End
substance dissolves it creates:		
A mixture		
A combination		
A concoction		
A solution		

Question 7 – What type of change	Start	End
is burning?		
Reversible		
Colourful		
Warm		
Irreversible		

Question 8 – Which 2 changes	Start	End
are reversible?		
Rusting		
Melting		
Freezing		
Burning		

Question 9 – Which will	Start	End
create a chemical reaction?		
Mixing sand and water		
Mixing flour and bicarb		
Mixing water and ketchup		
Mixing vinegar and bicarb		