



NC OBJECTIVES	KEY KNOWLEDGE AND VOCABULARY
<ul style="list-style-type: none"> • know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution. • use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating • demonstrate that dissolving, mixing and changes of state are reversible changes • explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. • Find out about how chemists create new materials • Research and discuss how chemical changes have an impact on our lives 	<ul style="list-style-type: none"> • Know that some materials will dissolve in liquid to form a solution • Know how to recover a substance from a solution e.g. heating • Know that mixing materials can cause them to change • Understand the terms 'dissolve', 'react', 'solution', 'soluble' • Know that dissolving is a reversible change • Know that some changes of state and dissolving and mixing processes can be reversed through filtering, sieving and evaporating • Know what filtering, sieving and evaporating is • Know what the terms soluble and insoluble mean • Know what the terms reversible and irreversible mean • Know that some changes form new materials, and that these changes are not usually reversible. Know that some changes, caused by heating or cooling form new materials • Know about reversible and irreversible changes caused by heating or cooling materials • Know that changes caused by burning form new materials are not reversible. • Know what happens when materials are burned, including what new materials are produced • Know the meaning of the term flammable • Know what happens when bicarbonate of soda is mixed with other materials • Research chemical changes • Understand the impact on our lives of chemical changes