

CALCH LESSON PLAN			
Subject	Unit	Lesson	Key stage
Science	3	Limestone and chalk	KS2/3
<p>Learning objectives: By the end of this lesson pupils should learn:</p> <ul style="list-style-type: none"> • Some pupils will make detailed observations of chemical reactions and be able to provide a theory for the reaction. • Most pupils will understand there are reactions when calcium carbonate is combined with different liquids. They will also understand that heat changes limestone into quicklime. • All pupils will understand the difference between acids and alkalis and that limestone is an alkali. 			
<p>Keywords: Limestone, calcium carbonate, acid, alkali, neutralisation, pH Scale</p>			
<p>Introduction: As a quick introduction a quick quiz on the interactive whiteboard will refresh pupil's memory on acids and alkalis</p> <p><u>True or false</u></p> <ol style="list-style-type: none"> 1. Alkalis are in cleaning products. T 2. Our stomach produces too much acid. T 3. Universal Indicator turns red in alkalis. F 4. Universal Indicator turns red in acids. T 5. Universal Indicator turns yellow in weak acids. T 6. Universal Indicator turns blue in weak alkalis. T 7. Toothpaste is an acid. F 8. Lemons, Limes and Oranges are weak alkali. F 9. Car batteries contain a very strong acid that can burn metal. T 10. Limestone is alkaline. T 			<p>Timings (Based on 60 min)</p> <p>10 mins</p>

Links to literacy/numeracy:

This lesson can link to literacy in the following ways:

- *Gather and organise information from various sources.*
- *Identify how a text is organised e.g. logically or thematically to make the content clear and informative.*
- *Collate and summarise relevant information e.g. pull together and sum up facts and ideas about an issue, from different texts.*
- *Use a variety of strategies and resources to spell familiar and unfamiliar vocabulary and subject-specific words correctly.*

Cross curricular links to geography and geology.