



# St John Fisher RC Primary School

## Year 5 Knowledge Organiser – Summer Term One – Materials

### What we will be learning

#### Lesson 4-6

#### I know:

#### Lesson 4

- How to explain dissolving
- How to separate materials using filtering and sieving
- Some materials are soluble and some are insoluble
- The water in a solution will evaporate and this process can be speeded up by heat

#### Lessons 5 -6

- What reversible changes are
- That Irreversible changes occur through burning
- That Irreversible changes can happen when acid is added to a substance

### Key Facts to Remember

- The three states of matter are solids, liquids and gases.
- Some changes can be reversed, such as dissolving, mixing and changes of state.
- Changes of state include freezing, melting, evaporation and condensation.
- If you can retrieve the substances that you started with, then the change is reversible.
- An irreversible change is when a change cannot be undone to get the same substances back again.
- Irreversible changes result in new substances being made.
- When a new substance is made, a chemical reaction has taken place.

### Key Vocabulary and Glossary

<b>Mixture</b>	Two or more substances that can be easily separated.
<b>States of Matter</b>	The different forms that materials can take.
<b>Dissolve</b>	When a solution is made from a liquid and one other substance.
<b>Reversible Change</b>	When a change can be undone to get the same substances back again.
<b>Reverse</b>	To go back.
<b>Reversible Change</b>	When a change can be undone to get the same substances back again.
<b>Irreversible Change</b>	When a change cannot be undone to get the same substances back again
<b>Chemical Reaction</b>	A change where new substances are made.

### Key Knowledge:

Irreversible changes (such as burning and reactions with acids) cannot be reversed, and they result in new substances being made.

When a new substance is made, a chemical reaction has taken place.

When a substance fizzes, a gas has been made.



baking biscuits



mixing sand and stones



frying an egg



mixing flour and water

