



Wider Curriculum Unit Plan for Home learning

Subject: Science

Unit: Materials and Mixing and Making

Year: 2

Session	Lesson tasks
Week 1 Session 1	<p>What material should I use? <i>You will need pencil and paper</i></p> <ul style="list-style-type: none">• Read Michael Rosen's poem Woolly Saucepan (see below)• Think of 5 material madness ideas like this: <i>Material madness is... metal socks, a cotton wool scooter, a glass football.</i> Write some crazy ideas of your own!• Think about what makes these ideas so funny?• Watch the video What material should I use?
Week 1 Session 2	<p>How can the shape of solid objects be changed? <i>You will need a piece of paper, a pencil and some household objects which will be explained in the video.</i></p> <ul style="list-style-type: none">• In this lesson you will investigate how you can change the shape of solid objects using items in your home.• Watch the video Lesson 2
Week 2 Session 3	<p>Which fabric is the stretchiest? <i>You will need a piece of paper, a pencil and some household objects which will be explained in the video.</i></p> <ul style="list-style-type: none">• In this lesson, you will be learning about elasticity.• You will test a variety of household materials and will measure and compare their elasticity.• Watch the video Lesson 3
Week 2 Session 4	<p>Are hard materials absorbent? <i>You will need a piece of paper, a pencil and some household objects which will be explained in the video.</i></p> <ul style="list-style-type: none">• In this lesson, you will be learning about absorbency.• You will test a variety of household materials and will compare how absorbent each of them is.• Watch the video Lesson 4
Week 3 Session 5	<p>What is the difference between man-made and natural materials? <i>You will need a piece of paper and a pencil</i></p> <ul style="list-style-type: none">• In this lesson, we will be learning about raw materials and synthetic materials.• Watch the video Lesson 5• Complete the activity deciding which materials are raw and synthetic materials.• Look at home for examples too. Are there any materials you are not sure about?• Record your thoughts and any questions. How could you find out?
Week 3 Session 6	<p>Why do we change materials? <i>You will need a piece of paper and a pencil</i></p> <ul style="list-style-type: none">• In this lesson, you will learn how raw materials can be changed to make synthetic materials.• Watch the video Lesson 6• Make a list of what you think are the top 5 most useful materials in the world? Explain your answers.
Week 4 Session 7	<p>Mixing and Making What are the differences between solids, liquids and gases? <i>You will need a piece of paper and a pencil.</i></p> <ul style="list-style-type: none">• You will look at examples of each, before moving on to learning about how the particles are arranged in solids, liquids and gases• Watch the video Lesson 1

Week 4 Session 8	<p>What happens when you heat a solid? You will need a piece of paper and a pencil.</p> <ul style="list-style-type: none"> In this lesson, you will look at some examples of different solids that can be melted and will learn what happens to them when they melt. Watch the video Lesson 2
Week 5 Session 9	<p>Which mixture makes the best bubbles? Watch the video Lesson 3</p>
Week 5 Session 10	<p>What happens when I mix a solid and liquid? You will need a piece of paper and a pencil.</p> <ul style="list-style-type: none"> There will also be an investigation which you can either watch or join in with if you ask permission from your parent or carer. Watch the video Lesson 4
Week 6 Session 11	<p>How can I separate a mixture? You will need a piece of paper and a pencil.</p> <ul style="list-style-type: none"> We will learn three main methods that can be used to separate mixtures. There will also be an investigation which you can either watch or join in with if you ask permission from your parent or carer. Watch the video Lesson 5
Week 6 Session 12	<p>Are there some changes we cannot reverse? You will need a piece of paper and a pencil.</p> <ul style="list-style-type: none"> Watch the video Lesson 6 You are now a Materials expert! You will now be able to use lots of expert language about materials. Explain each of these words – you can use pictures to help with giving examples. <i>solid, liquid, raw, synthetic, reversible, transparent, elasticity</i>

Session Resources

Lesson 1

Woolly Saucepan by Michael Rosen

Could I have
a woolly saucepan
a metal jumper
a glass chair
and a wooden windowpane please?

Er - sorry - I mean
a woolly chair
a glass chair
a wooden saucepan
and a metal windowpane please?

Er – sorry – I mean,
Oh blow it!
You know what I mean don't you?