

Y2 - Science	Autumn 1 – Materials: Good Choices
1. Learning Intention	To describe objects, including naming the material from which they are made
Targets for Success	I can compare two objects I can identify the material an object is made from I can record my observations
Activity	In this lesson children observe and compare features of objects.
2. Learning Intention	To identify objects made of particular materials
Targets for Success	I can identify objects made of particular materials I can describe the properties of a material I can suggest reasons to explain why the material was chosen
Activity	In this lesson children look at objects made from different objects
3. Learning Intention	To explain if a material is a good choice for an object
Targets for Success	I can decide if a material is a good choice or not I can explain why it is a good choice or not I can give reasons based in the properties of the material
Activity	In this lesson children identify which materials are appropriate for certain objects and which are not
4. Learning Intention	To test different fabrics to decide which is the best to use for dungarees
Targets for Success	I can rub the fabric in the same way I can record my results I can use my results to help me choose the best material
Activity	In this lesson children test a collection of fabrics by rubbing them on a rough stone surface to find out which ones are the most hardwearing.
5. Learning Intention	To test different materials to find out which is suitable for a teabag
Targets for Success	I can suggest how to test the different materials I can carry out the test and record my results I can sort which materials are good or not
Activity	In this lesson children carry out a comparative test to find out which types of materials are appropriate or not appropriate to make a teabag.

6. Learning Intention	To compare balls to find out how bouncy they are
Targets for Success	I can test balls to see how bouncy they are I can use my results order the balls I can suggest reasons for my results
Activity	In this lesson children compare different balls to find out how bouncy they are.
7. Learning Intention	To test different materials to find out which I suitable to cover a tent
Targets for Success	I can decide which properties are important I can test for different properties I can give reasons for my choices
Activity	In this lesson children consider what properties are important when choosing a material for a tent cover. Children will then test the material

Y2 - Science	Spring 2 – The Apprentice Gardener
1. Learning Intention	To identify which seeds will grow into which types of plants
Targets for Success	I can make observations of different types of seeds I can use my observations to describe and identify seeds I can suggest what might help the seeds to grow I can match the seed to the type of plant it will grow into
Activity	
	This lesson builds on work from Year 1. In this lesson, children use their observations to describe and identify seeds. By the end of this lesson they recognise that different seeds grow into different plants.
2. Learning Intention	To ask questions that will help us to find out about growing plants from seeds.
Targets for Success	I can think about what might happen to seeds when they grow I can turn my ideas into questions I can suggest what a gardener needs to know about seeds I can decide how we might find answers to our questions
Activity	This is the first part of a three part lesson. Children revisit this investigation in Lessons 4 and 7. In this lesson children consider what they need to find out about seeds and growing plants. They start to plant a series of seeds that they will observe over the next few weeks, plant some bulbs to observe as a class and begin a class book to record their investigations.

3. Learning Intention	To plan and set up an investigation into how seeds should be planted
Targets for Success	I can suggest what might happen when seeds are planted in different ways I can plan how my ideas can be tested I can follow the plan to set up a test
Activity	This is the first part of a three-part lesson. Children revisit this investigation in Lessons 4 and 8. In this lesson children learn more about how to plant seeds. By the end of this lesson they have set up comparative test that help them to answer questions about which way to plant their seeds and whether seeds need light to germinate.
4. Learning Intention	To make an accurate record of the changes that happen to our seeds
Targets for Success	I can make careful observations of my seeds I can record my observations using dated and labelled drawings or photographs I can describe the changes using the correct scientific words
Activity	This is the second part of two separate three-part lessons. This lessons follows on from the investigations set up in Lessons 2 and 3, which were the first parts of the two series of lessons investigating seed germination and bean germination. The lesson is a series of short episodes in which children make and record observations for the investigations set up in Lessons 2 and 3. By the end of this series of lessons they have completed individual and group observation diaries.
5. Learning Intention	To present data on a bar chart and use it to answer a question
Targets for Success	I can make suggestions about which seeds might grow into the tallest plants I can make a bar chart showing the heights of different plants I can use evidence on my bar chart to answer our questions
Activity	In this lesson children investigate the connection between the size of a seed and the height of the plant that it grows into. By the end of this lesson they have made a bar chart and used the chart to decide whether or not there is a connection between seed size and height of plant.
6. Learning Intention	To describe the different stages of germination
Targets for Success	I can make detailed observations of seeds during germination I can name the parts of a seedling I can remember the order in which they grow I can compare the germination of different seeds

Activity	This is the third part of a three-part lesson and concludes the investigation that was set up in Lesson 2. (In the second part, Lesson 4, children regularly added further seeds and made and recorded observations.) In this lesson children review their seed diaries and complete their observations of the germinating seeds. By the end of this lesson they know the sequence of germination.
7. Learning Intention	To write a conclusion that answers a question about how seeds should be planted
Targets for Success	I can make and record a series of observations as seeds germinate and seedlings grow. I can decide what my observations tell me. I can write a conclusion describing what I have found out. I can recognise whether my ideas have changed
Activity	This is the third part of a three-part lesson and concludes the investigation that was set up in Lesson 3. In this lesson children review how their bean seeds – which in Lesson 3 they planted different depths and in different orientations – have grown. (In Lesson 4 children made recorded regular observations of their bean seeds) By the end of this lesson children will have drawn conclusions from their observations.

Y2 - Science	Summer 1 – Growing Up
1. Learning Intention	To recognise the needs of a human baby for survival
Targets for Success	I can give differences between living and non-living things I can group things a baby does and does not need I can identify somethings that are not essential but are good for babies to have
Activity	In this lesson children compare a doll and a baby and identify the potential needs of a baby
2. Learning Intention	To compare features of a baby and a child
Targets for Success	I can recognise characteristics of babies I can recognise characteristics of children I can identify changes that happen when babies grow into children
Activity	In this lesson children draw on a range of information sources to identify the changes that have occurred as they have grown from a baby into a child

3. Learning Intention	To classify and describe changes that happen as people grow older
Targets for Success	I can name the stages of human life I can put the stages of human life in order I can describe differences between the stages
Activity	In this lesson children learn about stages in human life
4. Learning Intention	To investigate whether older children have bigger heads
Targets for Success	I can measure the size of someone's head I can complete a table I can plot points on a scatter graph I can use the graph to answer the investigation question
Activity	In this lesson children carry out a pattern-seeking investigation based on measuring the head sizes of children of different ages.
5. Learning Intention	To find out and record the answers to questions about babies
Targets for Success	I can ask questions about babies I can listen to find out the answers to my questions I can make observations of a baby I can record what I have found out using writing and pictures
Activity	In this lesson children find out more about babies by questioning an expert (a parent or health professional) They may also meet a baby.
6. Learning Intention	To find evidence about how we grow as we get older
Targets for Success	I can record data on a table I can plot data points on a scatter graph I can notice a pattern on the graph I can use the graph to answer a question about how our body parts grow as we get older
Activity	In this lesson children investigate questions about growing.

Y2 - Science	Summer 2 – Take Care
1. Learning Intention	To sort food into different types
Targets for Success	I can sort food in different ways

	I can label the groups I can present my sorting in a Venn diagram
Activity	
	In this lesson children first think about what they need to do to stay safe and healthy. Then they sort food, choosing their own ways of grouping
2. Learning Intention	To sort foods according to their food types
Targets for Success	I can sort food in different ways I can name and give examples of the different food types I can design a healthy lunchbox
Activity	In this lesson children explore different types of food, sorting them into different categories and planning meals.
3. Learning Intention	To observe the effects of exercise and plan for regular exercise
Targets for Success	I can describe how my body feels when I exercise I can suggest different activities that exercise our bodies I can plan daily physical activities
Activity	In this lesson, children explore how it feels to take part in a physical activity
4. Learning Intention	To describe different ways to stay hygienic
Targets for Success	I can suggest ways to be hygienic I can explain how to clean my body I can give reasons why it is important to keep my body clean
Activity	In this lesson children learn about keeping their bodies clean
5. Learning Intention	To present information about staying healthy in a book for younger children
Targets for Success	I can decide what information needs to go in my book I can decide what words and images to put on each page I can state the key messages about how to stay healthy and safe I can create an effective front and back cover
Activity	In this lesson children create a picture book for younger children, to demonstrate what they know about keeping healthy.