

CONTENTS

UNIT 1	USEFUL AND HARMFUL ANIMALS	1
UNIT 2	USEFUL AND HARMFUL PLANTS	11
UNIT 3	AIR	21
UNIT 4	WATER	33
UNIT 5	IN THE GROUND	45
UNIT 6	THE SEASONS	57
UNIT 7	LIGHT AND SHADOWS	65
UNIT 8	HEAT	76
UNIT 9	SOUND	85
UNIT 10	ELECTRICITY	92
UNIT 11	MAGNETS	101

UNIT 6 THE SEASONS

SCHEME OF WORK

Suggested time frame: 7 periods (1 period is approximately 40 minutes.)

Lesson	No. of Periods	Learning Objective(s)	Process Skill(s)	Vocabulary	Resource(s) and Material(s)
1	3	<ul style="list-style-type: none"> Know the four seasons. Observe and describe weather conditions associated with each season. 	<ul style="list-style-type: none"> Analysing Classifying Communicating Generating possibilities Inferring Observing 	<ul style="list-style-type: none"> Autumn Cold Cool Hot Season Snow Spring Summer Warm Windy Winter 	<ul style="list-style-type: none"> Textbook, pp. 72–73 Activity Book, pp. 38–40 Pictures of things that represent the four seasons (e.g. green grass, blooming flowers, the Sun, a beach, trees with red autumn leaves, dried leaves on the ground, a snowman and bare trees) Internet Large sheets of paper, markers Pencils, paper of different colours, scissors, glue
2	4	<ul style="list-style-type: none"> Understand how seasons affect how we dress and the types of activities that we can do. Know the different seasons in your area. 	<ul style="list-style-type: none"> Analysing Communicating Comparing Evaluating Generating possibilities Inferring Observing 	<ul style="list-style-type: none"> Light Thick Thin 	<ul style="list-style-type: none"> Textbook, pp. 70–71, 74–81 Activity Book, pp. 41–44 Pupils' photographs taken in places that have different seasons Paper dolls and clothes for different seasons Pictures of animals that live in Antarctica <p>Optional:</p> <ul style="list-style-type: none"> Pictures related to each of the four seasons from magazines or newspapers, scissors, large sheets of paper, marker, glue

Note: This unit is supported by PowerPoint Slides and an online Question Bank, which can be found at: www.MCEduHub.com

Lesson 1

Duration of lesson: 3 periods

Learning objectives

- Know the four seasons.
- Observe and describe weather conditions associated with each season.

Process skills

- Analysing, classifying, communicating, generating possibilities, inferring, observing

Vocabulary

- Autumn, cold, cool, hot, season, snow, spring, summer, warm, windy, winter

5E	Lesson	Resource(s) and Material(s)
Engage (20 min)	<i>(Process skills: Observing, classifying, communicating)</i> <ul style="list-style-type: none"> • Show pupils pictures of different things that represent the four seasons (e.g. green grass, blooming flowers, the Sun, a beach, trees with red autumn leaves, dried leaves on the ground, a snowman and bare trees) from the Internet. • Get pupils to try to sort the pictures into four groups. • Ask pupils the following question: <ul style="list-style-type: none"> ➢ What do these pictures show? <ul style="list-style-type: none"> ○ These pictures show the four seasons. 	<ul style="list-style-type: none"> • Pictures of things that represent the four seasons (e.g. green grass, blooming flowers, the Sun, beach, trees with red autumn leaves, dried leaves on the ground, a snowman and bare trees)
Explore (40 min)	<i>(Process skills: Observing, generating possibilities, communicating)</i> <ul style="list-style-type: none"> • Show pupils a video that introduces the four seasons at: https://www.bbc.co.uk/bitesize/topics/zkvv4wx/articles/zcx3gk7 • Write the words "spring", "summer", "autumn" and "winter" on the board. • Divide pupils into four groups. • Assign each group a different season. • Get each group to discuss the words that come to their mind when they think of the season. • Get pupils to write their answers on a large sheet of paper. • Do a gallery walk. 	<ul style="list-style-type: none"> • Internet • Large sheets of paper, markers

5E	Lesson	Resource(s) and Material(s)
<p>Explain</p> <p>(20 min)</p>	<p><i>(Process skills: Analysing, communicating, observing)</i></p> <ul style="list-style-type: none"> • Get pupils to look at the words that they have used to describe the four seasons in "Explore". • Ask pupils the following questions: <ul style="list-style-type: none"> ➢ What is the weather like in spring, summer, autumn and winter? ➢ Which words do we use to describe the weather in each season? • Use Textbook p. 72 to explain the weather conditions related to each season. • Tell pupils that the four seasons occur in a cycle. • Use Textbook p. 73 to explain how the leaves of some trees change over the seasons. 	<ul style="list-style-type: none"> • Textbook, pp. 72–73
<p>Elaborate</p> <p>(30 min)</p>	<p><i>(Process skill: Communicating)</i></p> <ul style="list-style-type: none"> • Get pupils to carry out Creative Science on Activity Book pp. 39–40 to make a tree for each season. • Get pupils to use Research on Textbook p. 72 to find out in which countries autumn is known as "fall" and why. 	<ul style="list-style-type: none"> • Textbook, Research, p. 72 • Activity Book, Creative Science, pp. 39–40 • Pencils, paper of different colours, scissors, glue
<p>Evaluate</p> <p>(10 min)</p>	<p><i>(Process skills: Observing, analysing)</i></p> <ul style="list-style-type: none"> • Get pupils to answer the questions in Quick Check on Textbook p. 73. • Get pupils to complete Activity 1 on Activity Book p. 38. 	<ul style="list-style-type: none"> • Textbook, Quick Check, p. 73 • Activity Book, Activity 1, p. 38

Lesson 2

Duration of lesson: 4 periods

Learning objectives

- Understand how seasons affect how we dress and the types of activities that we can do.
- Know the different seasons in your area.

Process skills

- Analysing, communicating, comparing, evaluating, generating possibilities, inferring, observing

Vocabulary

- Light, thick, thin

5E	Lesson	Resource(s) and Material(s)
Engage (20 min)	<p>(Process skills: <i>Observing, analysing, communicating</i>) Note: Ask pupils to bring their photographs taken when they travelled to places that have different seasons, if available, before the lesson.</p> <ul style="list-style-type: none"> • Divide pupils into groups of four or five. • Tell pupils to share their photographs. • Get pupils to talk about the type of weather they experienced and the clothes they wore. • Ask pupils the following questions: <ul style="list-style-type: none"> ➢ What was the season when you visited the place? ➢ What types of clothes did you wear? ➢ Why did you wear these types of clothes? 	<ul style="list-style-type: none"> • Pupils' photographs taken in places that have different seasons
Explore (60 min)	<p>(Process skills: <i>Generating possibilities, communicating, evaluating</i>) Note: Prepare paper dolls and clothes for different seasons before the lesson. Pictures of paper dolls and clothes can be found from the Internet.</p> <ul style="list-style-type: none"> • Divide pupils into four groups. • Give each group a set of a paper doll and clothes. • Assign each group a different season. • Get each group to dress the paper doll for the season assigned. • Get pupils to present their paper doll and explain why they dressed their paper doll in this way. • Ask pupils the following questions: <ul style="list-style-type: none"> ➢ Would you dress your paper doll in the same way for a different season? ➢ Would you change the types of clothes that you wear with each season? • Draw four columns on the board. • Write the headings "Spring", "Summer", "Autumn" and "Winter" in separate columns. • Ask pupils the following question: <ul style="list-style-type: none"> ➢ What activities can you do in each season? 	<ul style="list-style-type: none"> • Paper dolls and clothes for different seasons

5E	Lesson	Resource(s) and Material(s)
	<ul style="list-style-type: none"> • Write pupils' answers under the headings on the board. • Ask pupils the following questions: <ul style="list-style-type: none"> ➢ Do you carry out the same activities in different seasons? ➢ Which activities do we carry out in certain seasons only? 	
Explain (20 min)	<p><i>(Process skills: Observing, inferring)</i></p> <ul style="list-style-type: none"> • Get pupils to look at the picture on Textbook pp. 70–71 to identify the seasons represented by the characters based on what they wear and do. • Guide pupils to conclude that seasons affect what we wear and what we do. • Go through the examples of the types of clothes that we wear and the activities that we can do in each season on Textbook pp. 74–77. 	<ul style="list-style-type: none"> • Textbook, pp. 70–71, 74–77
Elaborate (20 min)	<p><i>(Process skills: Communicating, analysing)</i></p> <ul style="list-style-type: none"> • Ask pupils the following questions: <ul style="list-style-type: none"> ➢ Are there different seasons where you live? ➢ What is your favourite activity in each season? • Get pupils to use Explore on Textbook p. 77 to discuss. • Get pupils to use Language Connect on Textbook p. 77 to write three sentences about what they would wear and do in their favourite season. • Share with pupils that Antarctica is the coldest place on the Earth. • Get pupil to read Science Today on Textbook p. 81 to find out about the weather conditions in Antarctica. • Show pupils pictures of animals that live in Antarctica from the Internet. • Get pupils to discuss how the animals that live in Antarctica survive the cold. <ul style="list-style-type: none"> ○ The animals have features that help keep them warm. For example, some animals have a thick layer of fat and some animals have thick fur. • Get some pupils to present their answers. 	<ul style="list-style-type: none"> • Textbook, Explore, p. 77, Language Connect, p. 77 and Science Today, p. 81 • Pictures of animals that live in Antarctica
Evaluate (40 min)	<p><i>(Process skills: Observing, analysing, inferring, comparing, evaluating)</i></p> <ul style="list-style-type: none"> • Get pupils to answer the questions in Quick Check on Textbook p. 77. • Get pupils to complete Activity 2 on Activity Book p. 41. • Get pupils to complete Activity 3 on Activity Book p. 42. • Go through What We Have Learnt on Textbook pp. 78–79 and Science Words on Textbook p. 80 to recall the concepts and vocabulary learnt in this unit. • Get pupils to complete Test Yourself on Textbook p. 80. • Get pupils to complete Let's Review on Activity Book pp. 43–44. 	<ul style="list-style-type: none"> • Textbook, pp. 77–80 • Activity Book, Activity 2, p. 41, Activity 3, p. 42 and Let's Review, pp. 43–44