

INSPIRE COMPUTING

International

Workbook

YEAR 6

Name: _____

Class: _____

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International

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Series editor: Paul Clowrey



Pearson

Published by Pearson Education Limited, 80 Strand, London, WC2R 0RL.
www.pearson.com/international-schools

Copies of official specifications for all Pearson Edexcel qualifications may be found on the website:
<https://qualifications.pearson.com>

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Project managed and edited by Just Content
Designed and typeset by PDQ
Picture research by Integra
Original illustrations © Pearson Education Limited 2023
Cover design © Pearson Education Limited 2023
Cover illustration © Beehive/Andrew Pagram

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First published 2023

25 24 23
10 9 8 7 6 5 4 3 2 1

British Library Cataloguing in Publication Data
A catalogue record for this book is available from the British Library

ISBN 978 1 292 40435 6

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Printed in Slovakia by Neografia

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Contents

Unit 1: Databases

1 Looking at ways to store information	3
2 Creating a data table and running basic queries.....	5
3 Using spreadsheet software to work with a single table database	7
4 Investigating the use of databases in school	9
5 Investigating the use of databases outside school.....	11
6 Investigating database management systems.....	12
7 Searching online databases.....	13
8 & 9 Carrying out an online research project.....	14
10 Reviewing research findings.....	15
End-of-unit assessment.....	17

Unit 2: Programming (part 1)

1 Introduction to writing algorithms.....	21
2 Creating an algorithm using loops.....	22
3 Programming a solution to a problem that contains loops (part 1)	24
4 Programming a solution to a problem that contains loops (part 2)	26
5 & 6 Planning an original game.....	28
7 Using IF... THEN... in a game to add interaction	30
8 Using a variable to create a scoreboard.....	32
9 & 10 Alpha and beta testing and reviewing a game	33
End-of-unit assessment.....	35

Unit 3: Networks in society

1 The impacts of technology	39
2 The impact of technology on information services.....	41
3 Planning a research project	43
4 & 5 Analysing and presenting a research report	45
6 A class survey on the social impact of technology.....	46
7 The benefits of physical social networking	47
8 Online social networking	48
9 & 10 Staying safe on social networking sites and creating a code of conduct	49
End-of-unit assessment.....	51

Unit 4: Video editing

1 Staging on screen.....	55
2 Using sound	57
3 Good use of text	59
4 & 5 Planning and storyboarding a short video.....	61
6 & 7 Shooting a video	63
8 & 9 Video editing.....	65
10 Safe and responsible use of videos	66
End-of-unit assessment.....	68

Unit 5: Health and safety

1 Main features of computing devices.....	72
2 Can you get an injury from using digital devices?	74
3 & 4 Making a video about using digital devices safely	76
5 Digital devices and the environment.....	78
6 The life cycle of a smartphone	79
7 Reducing e-waste.....	81
8, 9 & 10 Planning and designing a leaflet	83
End-of-unit assessment.....	85

Unit 6: Programming (part 2)

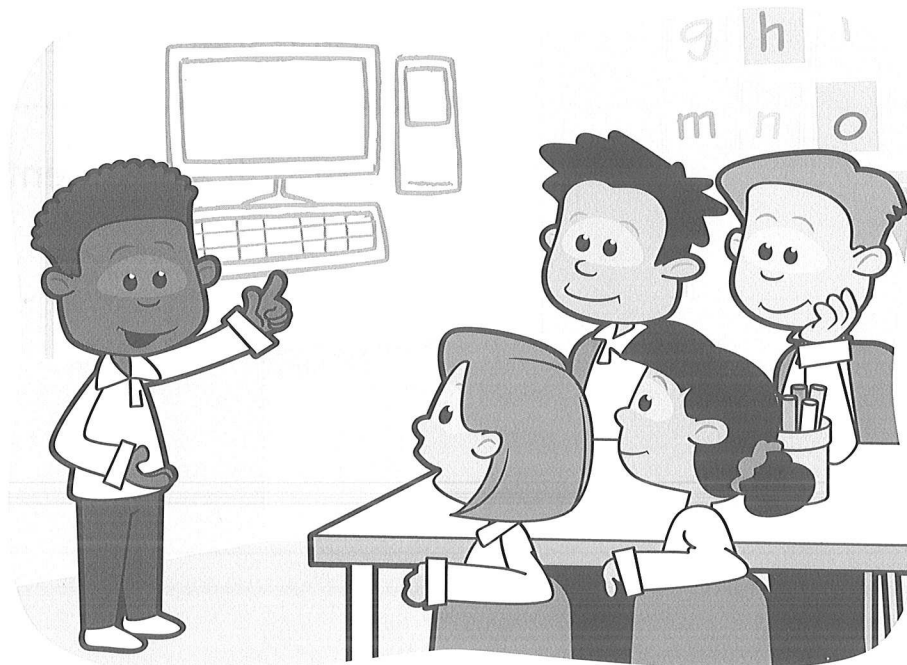
1 Designing, testing and repurposing an algorithm	89
2 Creating an algorithm using loops.....	91
3 Programming an algorithm that contains variables	93
4 Repurposing an algorithm.....	95
5 & 6 Programming a timer.....	97
7 Writing an algorithm to draw 2D shapes.....	99
8 Modifying a program to create multiple shapes on screen.....	101
9 Drawing shapes using coordinates and repurposing your program	103
10 Using shapes to represent an object	105
End-of-unit assessment.....	107

Welcome to Inspire Computing

We are all living in a continually evolving digital world. By supporting learners in becoming confident and knowledgeable users of technology we can ensure you are prepared for the future.

Inspire Computing makes important topics accessible for all learners. You will understand how to stay safe online while still enjoying the freedom to explore the World Wide Web. You will delve deeper into understanding algorithms through creative approaches, exploring networks and systems, and create and film exciting animation projects!

Each topic includes easy to understand theory, real-world examples, and ideas for further investigation. You will also have the chance to show off your knowledge and understanding through supportive assessments and student checkpoints!



Lessons 3 and 4

Making a video about using digital devices safely



1. You have been asked to create a video that provides advice on how to use devices safely. For each of the following, write a list of key points on health and safety.

a) Using a desktop computer at a desk:



b) Using a tablet computer around the home:



c) Using a laptop computer at home:



2. Match the filmmaking terms to the correct descriptions.

close-up, wide, pan

plan of shots, movement and backgrounds

splicing video

types of transition

fade and wipe

types of camera shot

storyboard

combining two or more clips into one clip

3. Describe three health and safety issues to consider when filming.

1 _____

2 _____

3 _____



Unit 6

End-of-unit assessment

1. What is a variable?

(1 mark)

2. Which of these is a variable?

A an algorithm

B the movement of a sprite

C the score in a game

D the backdrop

(1 mark)

3. Which of these is not an example of repurposing an algorithm?

A editing variables

B rearranging commands

C deleting and starting again

D changing input questions

(1 mark)

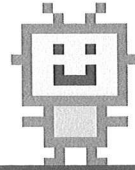
Unit 6 Checkpoints

I understand the purpose of a given algorithm and can use logical reasoning to explain how it works.	<input type="checkbox"/> 😊 <input type="checkbox"/> 😐 <input type="checkbox"/> 😞
I can repurpose an algorithm to solve new problems.	<input type="checkbox"/> 😊 <input type="checkbox"/> 😐 <input type="checkbox"/> 😞
I can create a program that includes variables such as scoreboards and timers.	<input type="checkbox"/> 😊 <input type="checkbox"/> 😐 <input type="checkbox"/> 😞
I can decompose a problem into smaller subproblems.	<input type="checkbox"/> 😊 <input type="checkbox"/> 😐 <input type="checkbox"/> 😞
I know how to make a sprite draw 2D shapes in Scratch.	<input type="checkbox"/> 😊 <input type="checkbox"/> 😐 <input type="checkbox"/> 😞

Unit 1

Databases

In this unit, you will use simple database methods, structures and types. You will develop your skills in using databases and software to collect, present and evaluate data. You will learn some of the differences between a spreadsheet and a database, and the reasons why databases are used in schools and businesses. Finally, you will use advanced search methods to gather information from large databases online and present your solutions to a problem.



Lesson 1

Looking at ways to store information

1. a) Describe what you think a database is.

A database is...

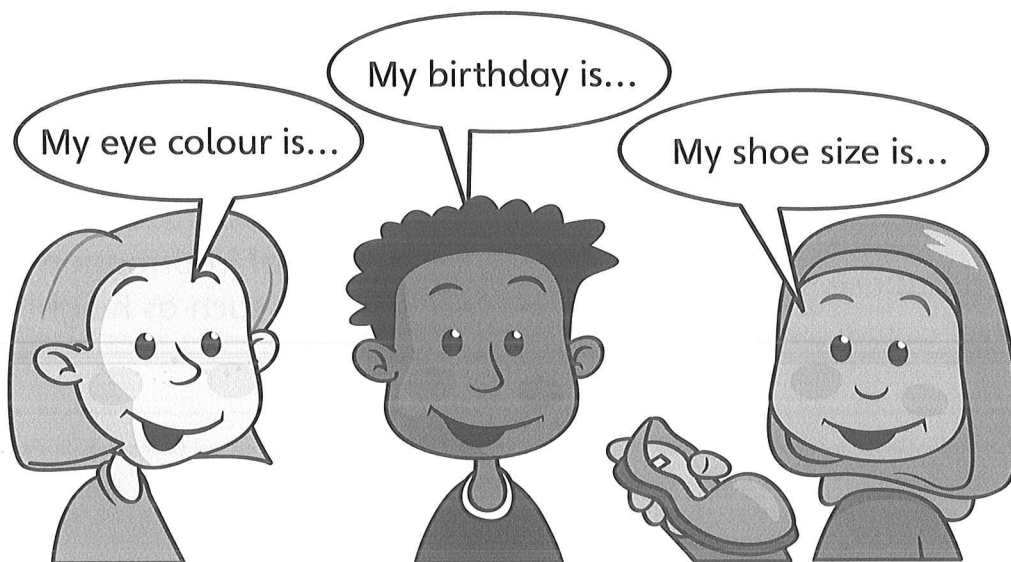
Tip

There is a clue in the word itself!

- b) List three places where a database could be used.

- 1 _____
- 2 _____
- 3 _____

2. Using the examples shown below as a guide, write down five different features that describe you on page 4.



- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____

3. Complete the record card below for a friend.

Name: _____	
Gender: _____	Height: _____(cm)
Date of birth: ____ / ____ / _____	Eye colour: _____
Favourite food: _____	Hair colour: _____
Favourite activity: _____	

4. Match the terms, below left, to the examples, below right, from a table of information about a class.

record	the whole collection of class records
field	one student and all the information linked to them
database	a piece of information about the student, such as height