Contents

ONLINE RESOURCES

The following resources are available online by entering your access code into PearsonPlaces, at www.pearsonplaces.com.au.
Access the resources from the Teacher Support section in your Passport.

Pearson Physics 12 Western Australia Teacher Resource: Overview

Pearson Physics 12 Western Australia Reader+ and ***Pearson Physics 12 Western Australia 12 Teacher Resource*** provide an extensive range of resources that will support you and your students in undertaking the WACE Physics ATAR course. Each element included in this package is designed to help you plan for, and implement, a detailed Physics 12 ATAR program of teaching and learning.

The ***Reader+* eBook** includes interactive activities, videos, fully worked solutions to all student book questions, mathematical skills for physics ATAR and a copy of the SCSA data booklet. The teacher version of *Reader+* includes all the student resources plus syllabus grids and sample teaching programs.

The ***Teacher Resource*** includes the syllabus grids, sample teaching programs and fully worked solutions in print and online formats, and chapter tests and practice exams in online format.

These resources will assist you in ensuring that your course addresses all the aspects of the syllabus.

Student resources

INTERACTIVE ACTIVITIES

These interactive activities typically include a short, animated clip or video and an activity, which may be a drag-and-drop or multiple-choice question, a graphical activity or a calculation. The advantage of having animations supporting content within the student book is to bring to life concepts that are difficult to show in static format. These concepts are then consolidated with the interactive activities that immediately follow the animation. These activities are found on *Reader+*.

MATHEMATICAL SKILLS EXPECTED OF STUDENTS STUDYING THE PHYSICS ATAR COURSE

These are short, self-directed learning modules that cover all the mathematical skills expected of students studying the physics ATAR course. There are twenty modules provided. These include content such as scientific notation, significant figures, changing the subject of an equation, and sin, cos and tan ratios, as well as graphical relationships such as inverse and inverse squared, and how to construct a line of best fit. These modules are available in both the student book and *Reader+*.

WORKED SOLUTIONS

These are fully worked solutions to all the Worked example: Try yourself activities, section review questions, chapter review questions and unit review questions.

Although the short answers are provided at the back of the student book, it is important to provide detailed worked solutions that show more detail in the problem-solving process. Fully worked solutions will provide students with further guidance on the correct reasoning behind the problem solving and the correct way to set out their working. The fully worked solutions are available on *Reader+*.

SCSA DATA BOOKLET

This is reproduced by permission of the SCSA to provide a backup copy for your students to access at any time.

Teacher resources

Teacher resources include information you can use to plan, implement and assess the course. With the exception of the SCSA data booklet, these are not available to students.

SYLLABUS GRIDS

The two unit syllabus grids connect the syllabus dot points to the chapter and section of the student book. Each syllabus dot point, including Science Understanding, Science as a Human Endeavour and Science Inquiry Skills, is shown alongside the chapter in which the content is covered or the skills are developed. The syllabus grids can be used to show the progression of the course through the student book. They can also provide you with a ready reference if you need to find the chapter and section of the student book that relates to any of the dot points. These grids are available on the teacher version of *Reader+* and in the print and online versions of the *Teacher Resource*.

 | ISBN 9781488618116 |

TEACHING PROGRAMS

The two unit teaching programs provide detailed structure to the course by linking the learning outcomes and assessment options to the key concepts, syllabus dot points, student book references, question references, and worked example references. The program is structured around seven lessons per cycle; you might need to modify this to suit your school's timetable. The sequence of lessons follows a logical progression of the concepts and may vary from the sequence in which the syllabus dot points are presented. References in the program to the student book include the chapter, section and page number, to help you in the programming of your course. Suggestions for assessment tasks are also provided. These assessments may be sourced from the chapter tests also provided in this package, or sourced from other providers. Practical activities and evaluation and analysis tasks can also be sourced from other providers such as STAWA. The teaching programs are available on the teacher version of *Reader+* and in the print version of the *Teacher Resource*. Editable versions are available on the online version of the *Teacher Resource*.

WORKED SOLUTIONS

These are fully worked solutions to all the Worked examples: Try yourself activities, section review questions, chapter review questions and unit review questions. Although the short answers are provided at the back of the student book, it is important to provide detailed worked solutions that show more detail in the problem-solving process. Fully worked solutions will provide students with further guidance on the correct reasoning behind the problem solving and the correct way to set out their working. The fully worked solutions are available on *Reader+* and via the print and online versions of the *Teacher Resource*.

CHAPTER TESTS AND SOLUTIONS

For each chapter, a chapter test with fully worked solutions and a marking guide is provided. These can be used to construct tests for your course or to supplement revision material available for your students. These tests are only available on the online version of the *Teacher Resource,* so are initially secured.

PRACTICE EXAMS AND SOLUTIONS

There are two practice exams with fully-worked solutions and a marking guide. Each practice exam covers the content from both Units 3 and 4. These can be used to construct exams for your course or as practice exams for your students. These exams are only available on the online version of the *Teacher Resource,* so are initially secured.