Welcome to next generation

Use this guide to...

- find out more about Activate Kerboodle*
- view and play sample content

To navigate through this guide, click on the arrow buttons at the bottom of the page. Alternatively, use the contents list above to click directly to areas of interest.

*Nelson Thornes, publisher of Kerboodle, is now part of Oxford University Press.
What is Kerboodle?
What is Kerboodle?

In a nutshell, Kerboodle is an online resource that is:

- A comprehensive, flexible assessment solution
- Full of inspiring resources
- Compatible with tablets, including iPads
- Simple to navigate
- Customisable and easy to add resources
- Complete with lots of support

Next generation Kerboodle offers blended digital resources to use alongside the Activate course. It contains an extensive bank of teaching material to help make your life easier, including time-saving lesson presentations, a wide variety of classroom resources, and a range of assessment tasks and auto-marked tests to help you to track learning. Most content is customizable and you can add in your own resources.

Already know Kerboodle? Next generation Kerboodle has been updated with new functionality and now has even more support and ideas for running creative and effective lessons. It is also now accessible via a wide range of devices, including iPads.
What is Kerboodle?

First, choose the route that best suits your school and your students. Both combined and separate sciences routes work for either a two-year or a three-year KS3.

<table>
<thead>
<tr>
<th>Combined sciences</th>
<th>Separate sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerboodle: Lessons, Resources and Assessment</td>
<td>Kerboodle Book</td>
</tr>
</tbody>
</table>

Kerboodle provides two purchasable options:

- **Lessons, Resources and Assessment** (includes teacher access to the Kerboodle Book, which is an online version of the Student Book)
- **Student access to the Kerboodle Book**

You can choose to use one or the other, or both – you decide what you and your students need. Click on the right-hand menu to find out more about each section.

Each option is available as an annual licence for unlimited users.
Lessons
What’s included in Lessons?

Activate Kerboodle saves you time with ready-to-deliver lesson presentations to accompany every double-page spread in the Student Books and Teacher Handbooks. They’re also flexible, and can be edited and adapted to suit your students.

- Ready-to-play lesson presentations for use on your whiteboard to help you run creative and effective lessons
- Resources are built into the lesson presentation, including interactive activities for starters and plenaries, practical worksheets, and homework
- Every lesson is accompanied by teacher notes to support your lesson delivery
- Lesson presentations are fully customizable, so you can edit, add, or delete screens to suit your students
A sample lesson using the Lesson Presentation

Open the sample lesson* by clicking on the image below.

*This sample lesson will open as a PDF for viewing purposes only. The actual lesson presentations in Kerboodle open within the site in a new browser, not as a PDF.
Resources
What’s included in Resources?

- *Activate* Kerboodle provides a wealth of classroom resources, including more than:
  - 30 animations
  - 9 videos
  - 210 lesson presentations
  - 160 auto-marked assessments
  - 50 paper-based assessments
  - 210 practical and activity worksheets
  - 210 starter and plenary interactive activities
  - 30 WebQuest activities

- Interactive activities are ideal for classroom or individual use
- A bank of activity sheets and practicals with technician notes
- Opt-in support sheets and extension tasks are provided for each activity
- WebQuests can be set as homework tasks to build research and literacy skills
Open sample resources

Open sample resources by clicking on the image below.
Open sample resources

Open sample resources by clicking on the image below.

Homework

Write a leaflet explaining to the public why we grit roads in icy condition.

You will need to access the WebQuest for your homework.

Click to open
Open sample resources by clicking on the image below.
Open sample resources by clicking on the image below.

**Interactive Activities**

**Stretching experiment**

Choose the correct words to describe your experiment to investigate the stretching of a piece of elastic.

- added masses
- dependent
- less
- squashed
- width
- control
- stretched
- independent
- ruler
- length

In our experiment we [ ] a piece of elastic. We used a [ ] to measure the [ ] of the elastic each [ ] time we [ ]. We found the elastic stretched [ ] when we added more masses. Our [ ] variable was the starting length of the elastic.

**Acknowledgements**

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Open sample resources

Open sample resources by clicking on the image below.

INTERACTIVE ACTIVITIES

C1 3.6 Interactive screen: When ice changes state

Choose the correct words to describe the energy transfers involved when an ice cube changes state.

Ice turns to liquid water when it _________. Energy is transferred from the ________ to the _________. Therefore the water particles can move around _________ freely. If enough energy is transferred, the water particles can ________ and form a ________.

Click to open
Open sample resources by clicking on the image below.

P1 1.3 Video: Drag forces and friction

Watch the video on friction and drag forces, then answer the questions on the following screen.

Click to open
Open sample resources by clicking on the image below.

Chapter 1 Checkpoint Revision (Route A)

Cells

Task 1: Using a microscope

In this task you will revise how to use a microscope to observe a cell. You will write a full explanation of how to do this.

You need to complete the table first. Make sure you use the key words given.

<table>
<thead>
<tr>
<th>Step</th>
<th>What do you need to do?</th>
<th>Key words</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>slide</td>
<td>light</td>
</tr>
<tr>
<td>2</td>
<td>image</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>objective lens</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>high magnification</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>fine/focus</td>
<td></td>
</tr>
</tbody>
</table>

Now decide the best way to write your explanation. You should include all the information that is in the table. Write your explanation in the space below.

[Space for answer]
Open sample resources by clicking on the image below.
Open sample resources

Open sample resources by clicking on the image below.

CHECKPOINT RESOURCES – TEACHER NOTES

Chapter 1 Checkpoint
Teacher notes

Aim

The aim of the revision activity is to provide support for students who need progress from checking to secure for the core National Curriculum statements.

The aim of the extension activity is to provide extension for students who have already achieved secure. The activity is also suitable for other students in need of further extension work.

Revision activity notes

The revision activity asks students to work through a number of tasks to help them move towards demonstrating a secure grasp of key concepts from this chapter. Suggestions are given in the Teacher Handbook of how you can support students on this program for well outcomes.

This revision activity is largely focused on reasoning and explanations, and the sheet provides challenging to help students.

Additional notes:

- The revision activity should be used as less than 75% in the Checkpoint assessment.
- You can review students against the checklists and the assessment checklist. You might decide to cover all topics in the revision sheet and assess student performance on specific examples.
- A note of which task covers which standard is given in the Teacher Handbook.
- This revision activity could also be used as a revision sheet for all students.

Revision activity answers

Task 1

1. Prepare the slide with the specimen and rotate the slide to avoid twisting the cell.
2. Place the slide on the stage and move the stage to its lowest position to allow for movement of the objective lens.
3. Switch the light on so you can see your object.
4. Set the objective lens with the highest magnification. This is because cells are very small and need high magnification.
5. Turn the coarse focus knob until you can see your cell. The fine-focus knob brings the cell into focus.

Task 2

All living organisms are made up of cells. Cells are the building blocks of life. They are the smallest unit found in an organism. All cells are composed of the same parts, but each type of cell is different. (Plant cells are also a vacuole, cell-membrane, nucleus, cytoplasm, and mitochondria.)
Open sample resources by clicking on the image below.

**QUESTION LED RESOURCES**

**Squashing and stretching**

**Alms**

In this lesson you are given a question to answer. You will find the answer to the question by testing how much a piece of elastic stretches when weights are applied. You will then write your answer to the question.

**Big Question**

An experimenter bungee jumping measures the length of the bungee rope as different people can use the rope. They wish to create a formula to describe how the size of a person affects the extra information. The rope has a length of 1.2 m when an adult jumps with height 1.8 m. An adult weighs 70 kg.

**What I need to know**

Before answering, you need to know how to:

The table below states the things you need to know to do to answer the question. You might not know how to answer them yet. Tick the box for the answer you know, and write your answer to the question, and write your answer in the answer box.

<table>
<thead>
<tr>
<th>Learning objective</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Describe how the length of elastic rope changes when a force is applied</td>
<td></td>
</tr>
<tr>
<td>State Hooke’s Law</td>
<td></td>
</tr>
<tr>
<td>State that extension is found by taking the original length away from the new length</td>
<td></td>
</tr>
</tbody>
</table>

**Key words**

Add all the key words you need to answer the Big Question in this box.
Open sample resources by clicking on the image below.
Assessment
What’s included in Assessment?

_Activate_ provides a flexible assessment solution you can use for the new KS3 curriculum, devised by expert Assessment Editor Dr Andrew Chandler-Grevatt. The _Activate_ banding system allows you to monitor your students’ progress against what’s required by the Programme of Study, and can be used with or without levels.

- A whole bank of assessments that you can assign to your students to complete at home
- Auto-marked assessments with confidence selectors and targeted feedback help assess maths, literacy, working scientifically skills and KS2 knowledge, as well as content from the chapter
- Targeted feedback for students helps them to improve their performance, correct their mistakes and make progress
- Checkpoint assessments for the end of each chapter help you determine next steps, and support and extension resources are provided
The assessment model

Levels have been removed from Key Stage 3 and will not be replaced. The Activate assessment model provides a banding system for the new curriculum, mapped to levels and grades so you can choose the option that’s best for your school.

The middle band indicates that students have a secure grasp of the content or skills specified in the Programme of Study. The band working towards secure is developing, and the band moving past secure is extending.

<table>
<thead>
<tr>
<th>Activate bands</th>
<th>Developing</th>
<th>Secure</th>
<th>Extending</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level equivalent</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Grade indicator</td>
<td>To ensure grade indicators are up-to-date with KS4 qualifications, the information is stored on Kerboodle.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bloom’s Taxonomy links</td>
<td>Remembering &amp; Understanding</td>
<td>Application &amp; Analysing</td>
<td>Evaluation &amp; Creating</td>
</tr>
</tbody>
</table>

At the end of each chapter, Kerboodle auto-marked assessments will help you determine if your students have a secure understanding of the content from that chapter.
Open sample assessment tasks

Open sample resources by clicking on the image below.

CHECKPOINT ASSESSMENT TEST

B1 Chapter 1 Checkpoint assessment – practice

Click on a label and then on the correct part of the plant cell to label the diagram.

mitochondrion  nucleus  chloroplast  vacuole

cell wall  cell membrane  cytoplasm

click to open

Reset  Acknowledgements  © Oxford University Press 2013  3 of 12  Check answers
Open sample assessment tasks

Open sample resources by clicking on the image below.

PROGRESS TASKS – MATHS, LITERACY AND WORKING SCIENTIFICALLY

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Open sample assessment tasks

Open sample resources by clicking on the image below.
Open sample assessment tasks

Open sample resources by clicking on the image below.
Open sample assessment tasks

Open sample resources by clicking on the image below.

PRE UNIT AND END-OF-UNIT TESTS

C1 Unit pre-test

The properties of different materials make them suitable for different uses. Which of the following three statements are true? Select the correct answers.

- Copper is suitable for computer cables because it conducts electricity.
- Wood is suitable for tables because it is hard.
- Iron is suitable for saucepans because it is attracted to magnets.
- Copper is suitable for computer cables because it is shiny.
- Wood is suitable for tables because it is strong and hard.

1 of 8 Check answers

Click to open
Open sample assessment tasks

Open sample resources by clicking on the image below.
Open sample assessment tasks

Open sample resources by clicking on the image below.
Markbook & reporting
What is the Markbook?

The Markbook is the record of all work you have sent to your students, as well as the place where you see submitted work, give marks, and run reports.

- See submitted work from students, including uploaded files and individual answers to interactive screens
- Assign marks and run reports to see achievement across a group, or across an individual’s different assessments
- Provides access to three different types of reports: diagnostic, group and student
- Data in reports can be exported for loading into another system, or printed for records, or a parents evening
What types of reporting does the Markbook provide?

Here are some samples of the three different types of reports.

**1. DIAGNOSTIC REPORT**

![Image of diagnostic report]

<table>
<thead>
<tr>
<th>TITLE</th>
<th>DUE DATE</th>
<th>SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Auto-Marked Test</td>
<td>02 Dec</td>
<td>Average Group Score: 44 %</td>
</tr>
<tr>
<td>2 Auto-Marked Test</td>
<td>29 Nov</td>
<td>Average Group Score: 76 %</td>
</tr>
<tr>
<td>Ralph Porter</td>
<td></td>
<td>19 / 70 27 %</td>
</tr>
<tr>
<td>Shu Kuang</td>
<td></td>
<td>45 / 70 64 %</td>
</tr>
<tr>
<td>Jamila Zainir</td>
<td></td>
<td>66 / 70 94 %</td>
</tr>
<tr>
<td>Pedro Cabrera</td>
<td></td>
<td>55 / 70 79 %</td>
</tr>
<tr>
<td>Noél Gibson</td>
<td></td>
<td>60 / 70 86 %</td>
</tr>
<tr>
<td>Bethany Yardley</td>
<td></td>
<td>58 / 70 80 %</td>
</tr>
<tr>
<td>Nataliya Gerecki</td>
<td></td>
<td>70 / 70 100 %</td>
</tr>
</tbody>
</table>
What types of reporting does the Markbook provide?

Here are some samples of the three different types of reports.

2. GROUP REPORT

<table>
<thead>
<tr>
<th>Title</th>
<th>Due Date</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Assessment Worksheet</td>
<td>06 Dec</td>
<td>77 %</td>
</tr>
<tr>
<td>Ralph Porter</td>
<td>12 / 20</td>
<td>60 %</td>
</tr>
<tr>
<td>Shu Kuang</td>
<td>18 / 20</td>
<td>90 %</td>
</tr>
<tr>
<td>Jamila Zamir</td>
<td>12 / 20</td>
<td>60 %</td>
</tr>
<tr>
<td>Pedro Cabreiro</td>
<td>16 / 20</td>
<td>80 %</td>
</tr>
<tr>
<td>Noel Gibson</td>
<td>19 / 20</td>
<td>95 %</td>
</tr>
<tr>
<td>Bethany Yardley</td>
<td>16 / 20</td>
<td>80 %</td>
</tr>
<tr>
<td>Nataliya Gorecki</td>
<td>15 / 20</td>
<td>75 %</td>
</tr>
</tbody>
</table>

Average Group Score: 77 %
What types of reporting does the Markbook provide?

Here are some samples of the three different types of reports.

### 3. STUDENT REPORT

#### Jamila Zamir - Student Markbook Report

<table>
<thead>
<tr>
<th>Title</th>
<th>Due Date</th>
<th>Marks / Y</th>
<th>Marks %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Assessment Worksheet</td>
<td>06 Dec</td>
<td>12 / 20</td>
<td>60 %</td>
</tr>
<tr>
<td>1 Auto-Marked Test</td>
<td>02 Dec</td>
<td>Incomplete Submission</td>
<td></td>
</tr>
<tr>
<td>1 Assessment Worksheet</td>
<td>29 Nov</td>
<td>Incomplete Marking</td>
<td></td>
</tr>
<tr>
<td>2 Auto-Marked Test</td>
<td>29 Nov</td>
<td>66 / 70</td>
<td>94 %</td>
</tr>
<tr>
<td>5 Assessment Worksheet</td>
<td>29 Nov</td>
<td>14 / 20</td>
<td>70 %</td>
</tr>
</tbody>
</table>
Kerboodle Book

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What is the Kerboodle Book?

Kerboodle Books are online versions of the Activate Student Books, which can be accessed on a range of devices and tablets.

Teacher access to each Kerboodle Book is automatically included as part of the matching Kerboodle: Lessons, Resources and Assessment package, and you can choose to buy access for your students.

- Students can view notes left by you, and use the bank of annotation tools to personalize their book
- Navigate around the Kerboodle Books quickly with the contents menu, keyword search or page number search
- Get instant access to all resources related to that spread if you’ve also purchased Lessons, Resources and Assessment
What is stuff made of? Everything is made up of chemicals – the food you eat, the plastics in your phone... and you! But what are these chemicals like inside, and why do they behave the way they do?

In C1 you will learn about the atoms that make up everything on Earth... and beyond. You will explore how chemical reactions make vital materials, and provide energy for almost everything we do.

- Different materials have different properties.
- The different properties of different materials make them suitable for different uses.
- Many materials can exist in the solid, liquid, and gas states.
- The state of a material depends on the temperature.
- Changes of state are reversible.
- Melting, freezing, evaporating, boiling, and condensing are changes of state.
- Changes that form new materials are not reversible.
- Changes that are not reversible include burning, oxidation, and reactions of acid.

You already know
- Atoms are the building blocks of materials.
- Elements are substances that cannot be broken down into simpler substances.
- Chemical reactions are processes in which one set of substances is changed into another set.
- Chemical reactions release energy.

BIG Questions
- What are materials like inside and why do they behave as they do?
- What are atoms and elements?
- How do scientists make new materials?

Making connections
In C1 you will learn about atoms and molecules and what happens when chemicals react. In B1 you will learn about diffusion and how particles move between substances. In P2 you will learn about energy transfer and energy conservation.
What is stuff made of? Everything is made up of chemicals – the food you eat, the plastic in your phone... and you!

But what are these chemicals like inside, and why do they behave the way they do?

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- Changes of state are reversible.
- Melting, freezing, evaporating, boiling, and condensing are changes of state.
- Changes that form new materials are not reversible.
- Changes that are not reversible include burning, oxidation, and reactions of acid.

You already know

Can you tell what this zoomed-in picture is?

Clue: It's a cold and frosty morning.

In C1 you will learn about atoms and molecules and what happens when chemicals react.

In B1 you will learn about diffusion and how particles move between substances.

In P2 you will learn about energy transfer and energy conservation.

Making connections

Can you solve this Picture Puzzler?

The first letter of each of these images spells out a science word that you will come across in this book.

Picture Puzzler

Close Up

Can you tell what this zoomed-in picture is?

Clue: It's a cold and frosty morning.

Chemistry

What is the name of the change of state in which liquid water becomes ice?

What are materials like inside and why do they behave as they do?

What are atoms and elements?

How do scientists make new materials?
Personalising Kerboodle
How is Kerboodle customisable?

If you want to, you can really make your Kerboodle your own. It offers so many ideas and options to how you can customise the content across the site. For example, you can:

- Upload your own content and share this with your department
- Edit, or create from scratch, lesson presentations with launching resources
- Add your own assessment tasks and assign them to your students for inclusion in the markbook
- Add web links and then use these to jump directly to content held online
- Create student groups within a course for bespoke assignments or reporting
- Add your own folders to group the content in your own way
- Annotate your Kerboodle book with notes and reminders
Want to see more?

Simply contact your local Educational Consultant. They can arrange a free trial or come into your school to give you and your department a free, without obligation, demonstration of Kerboodle.

Find your local Educational Consultant at www.oxfordsecondary.co.uk/repfinder

Place your order

3 ways to place your order:

1. Go online at www.oxfordsecondary.co.uk/kerboodle
2. Call 01536 452620
3. Email schools.orders.uk@oup.com