

# SCHOOLWIDE REVISION RESOURCES COMBINED SCIENCE



Dear Colleague,

We subscribe to an immensely useful learning and revision resource called SAM Learning. All Teachers and Learners automatically receive a user account to access this comprehensive library of exam board-aligned COMBINED SCIENCE resources. The service covers 17 subjects and is being used by other departments as part of their revision plans.

Teachers can assign to their class, or individual learners automatically marked activities on topics of their choice. The work appears in the learner's dashboard to be completed by the date set by the teacher.

Each activity provides comprehensive coverage of the selected topic and teachers can see progress reports and knowledge gaps in minutes.

EEF-commissioned the Fischer Family Trust to analyse 300,000 students in 250 schools over 9 years and the report, published in June 2020, showed on average, students who spent 10 or more hours on SAM Learning improved 1 GCSE grade better in 2 different subjects. This is roughly equivalent to a +0.20 P8 improvement.

Have a look – don't worry as it's already paid for! If you have any questions or issues please or feel free to <u>email SAM Learning</u> for an overview of the COMBINED SCIENCE materials and so they can answer any questions that you or your colleagues may have about the service.

Details of what's included and how to access SAM Learning are on the following pages....

Enjoy!











"I know it improves grades with regular use. I have used SAM Learning for nearly 15 years." Naomi May. Bullers Wood School for Boys, England.

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# KEY STAGE 3, GCSE AND IGSE COMBINED SCIENCE ACTIVITIES

## Login here

Personalise work for your learners - and save time for your teachers AVAILABLE TO ALL TEACHERS AND LEARNERS

#### About SAM Learning

We have school-wide access.

All teachers and learners have access to SAM Learning.

The service provides students with access to online interactive activities across all subjects.

The content reflects National Curriculum specifications and is aligned to exam boards.

### 10,000+ Resources and Activities, Learners can:

- Complete set task activities assigned by teachers
- Independently build knowledge and reinforce prior learning using activities of their choosing
- Be automatically assigned cross-curricular work as an individual, group or class using SAM Learning's adaptive A.I. technology

#### Automatic Marking and Reporting

SAM Learning's question level analysis identifies knowledge gaps in topics, diagnoses gaps in prior learning before starting a topic, and helps focus teaching and revision to exactly where it is needed.

And, all work is automatically marked for teachers and presented with detailed feedback in our reporting suite.

#### **Improving Outcomes**

A 9-year series of impact studies, commissioned by the EEF and completed by the Family Fischer Trust (FFT), found the **impact on student outcomes** (especially at GCSE level) when 10 task hours were completed over an academic year, was equivalent to 1 grade higher for at least 2 GCSE subjects. This is roughly equivalent to a +0.20 P8 improvement.

#### **Market Leadership**

We've chosen SAM Learning as a partner because they are highly experienced in the revision space. Reviews rank SAM Learning at the top of 20 subject and learning categories, INCLUDING **COMBINED SCIENCE**, with USER RATINGS of **GREAT or EXCELLENT by over 93%** in the past 6 months on EdTech Impact, in the UK.

#### **Cross-Curricular Samples**

### Click to view

#### Comined Science Sample Activities

- Science Terminology
- Carrying Out and Recording Experiments
- Drawing Conclusions
- Handling Scientific Equipment and Materials
- Recording Scientific Data
- Microscopy

Combined Science Resource Bank



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# KS3 and GCSE Exam Board COMBINED SCIENCE Coverage

#### AQA Combined Science

| AQA COMDINEU SCIENCE                               |         |
|--|---------|
| Adaptations, Interdependence and Competition       | 11      |
| Animal Tissues, Organs and Organ Systems           | 67      |
| Atoms  | 26      |
| Atoms and Isotopes                                 | 9       |
| Atoms and Nuclear Radiation                        | 11      |
| Biodiversity and the Effect of Human Interaction   | 22      |
| Bonding, Structure and Properties of Substances    | 38      |
| Carbon Compounds as Fuels and Feedstock            | 43      |
| Carbon Dioxide and Methane                         | 17      |
| Cell Division                                      | 18      |
| Cell Structure                                     | 21      |
| Changes of State and the Particle Model            | 4       |
| Classification of Living Organisms                 | 8       |
| Common Atmospheric Pollutants                      | 12      |
| Communicable Diseases                              | 53      |
| Composition and Evolution of Earth's Atmosphere    | 12      |
| Electricity  | 50      |
| Electrolysis                                       | 22      |
| Electromagnetic Waves                              | 24      |
| Energy   | 60      |
| Exothermic and Endothermic Reactions               | 15      |
| Forces and Elasticity                              | 5       |
| Forces and Motion                                  | 32      |
| Forces and Their Interactions                      | 16      |
| Homeostasis  | 12      |
| Hormonal Coordination in Humans                    | 23      |
| Identification of Common Gases                     | 2       |
| Internal Energy and Transfer                       | 5       |
| Ionic, Covalent and Metallic Bonds                 | 38      |
| Life Cycle Assessment and Recycling                | 7<br>25 |
| Measurements, Mass and Balanced Equations<br>Moles | 13      |
| Momentum   | 8       |
| Organisation of an Ecosystem                       | 26      |
| Particle Model and Pressure                        | 4       |
| Permanent and Induced Magnetism, Magnetic Force    | 3       |
| Photosynthesis                                     | 19      |
| Plant Tissues, Organs and Systems                  | 12      |
| Principles of Organisation                         | 3       |
| Purity, Formulations and Chromatography            | 12      |
| Rate of Reaction                                   | 39      |
| Reactions of Acids                                 | 27      |
| Reactivity of Metals                               | 14      |
| Reproduction                                       | 57      |
| Respiration  | 27      |
| Reversible Reactions and Dynamic Equilibrium       | 20      |
| Structure and Bonding of Carbon                    | 18      |
| The Human Nervous System                           | 19      |
| The Motor Effect                                   | 8       |
| The Periodic Table                                 | 36      |
| Transport in Cells                                 | 21      |
| Understanding Genetics and Evolution               | 16      |
| Using Earth's Resources and Obtaining Potable Wat  | 22      |
| Variation and Evolution                            | 33      |
| Waves in Air, Fluids and Solids                    | 21      |
| Work Done and Energy Transfer                      | 3       |
| Grand Total  | 1.189   |

| Key Stage 3 Science  |          |          |
|--|----------|----------|
|  | 48       |          |
| Biology<br>Chemistry   | 40<br>66 |          |
| Physics  | 78       |          |
| Diagnostics  | 12       |          |
| Grand Total  | 204      |          |
| WJEC Applied Science   |          |          |
| Controlling Processes  |          | 28       |
| Energy and Life  |          | 31       |
| Food for the Future  |          | 30       |
| Health, Fitness and Sport  |          | 69       |
| Materials for a Purpose  |          | 57       |
| Modern Living and Energy   |          | 41       |
| Obtaining Resources from Our Planet  |          | 43       |
| Our Planet   |          | 99       |
| Protecting Our Environment   |          | 5        |
| Scientific Detection   |          | 36       |
| Grand Total  | 4        | 139      |
| Edexcel Combined Science   |          |          |
| Acids  |          | 21       |
| Animal Coordination, Control and Homeostasis                                     |          | 19       |
| Atomic Structure   |          | 5        |
| Calculations Involving Masses  |          | 22<br>20 |
| Cells and Control<br>Conservation of Energy                                      |          | 20<br>19 |
| Covalent Bonding   |          | 5        |
| Earth and Atmospheric Science  |          | 9        |
| Ecosystems and Material Cycles   |          | 19       |
| Electricity and Circuits   |          | 21       |
| Electrolytic Processes   |          | 10       |
| Electromagnetic Induction  |          | 7        |
| Energy: Forces Doing Work  |          | 23       |
| Exchange and Transport in Animals  |          | 23       |
| Forces and Matter  |          | 2        |
| Forces and their Effects   |          | 10       |
| Fuels  |          | 31       |
| Genetics   |          | 22<br>12 |
| Groups in the Periodic Table<br>Health, Disease and the Development of Medicines |          | 6        |
| Heat Energy Changes in Chemical Reactions  | ,        | 11       |
| Ionic Bonding  |          | 9        |
| Key Concepts in Biology  |          | 31       |
| Light and the Electromagnetic Spectrum   |          | 14       |
| Magnetism and the Motor Effect   |          | 8        |
| Methods of Separating and Purifying Substances                                   |          | 11       |
| Motion and Forces  |          | 15       |
| Natural Selection and Genetic Modification                                       |          | 24       |
| Obtaining and Using Metals   |          | 7        |
| Particle Model   |          | 6        |
| Plant Structures and their Functions   |          | 10       |
| Radioactivity  |          | 7        |
| Rates of Reaction  |          | 27<br>20 |
| Reversible Reactions and Equilibria<br>States of Matter                          |          | 20       |
| The Periodic Table   |          | 25       |
| Types of Substance   |          | 33       |
| Waves  |          | 8        |
| Grand Total  | 5        | 574      |

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Activities generally take 10-15 minutes to complete or are timed activities to simulate an exam setting. Activities are automatically marked, can be assigned to your class or a group of pupils, and tightly focused on quickly assessing knowledge and gaps.



# Account Access and Support Details

# **Teacher Accounts**

Go to https://platform.samlearning.com

Enter your login details & click sign in

Any problems? You will need to contact SAM Learning directly. Go to the <u>Forgotten your</u> <u>Teacher Login page</u> and fill in the form for them to resolve it.

Teachers can identify learner user ID's by logging into their teacher account and clicking Learners off the top navigation bar. This page contains a user ID colunm.

Login here

## **Learner Accounts**

Go to https://platform.samlearning.com

**User ID** - a learner's user ID is typically their school email address. Where a Learner has no school email address it will be their six-digit DOB followed by their initials. I.E. Sam Large 01.01.21, the ID would be 010101SL

**Password** - a learner's password is typically their school email address. Where a Learner has no school email address it will be their sixdigit DOB followed by their initials. I.E. If Sam Large was born on 1st January 2001, the user ID would be 010101SL

**Centre ID** - the Centre ID is a unique identifier assigned to each school. The 'Can't log in?' feature is available.

### **Service Support**

Brief CPD Videos (links enclosed) are available or feel free to <u>email</u> SAM Learning for an overview of the geography materials so they can answer any questions that you or your colleagues may have about the service.

sst@samlearning.com

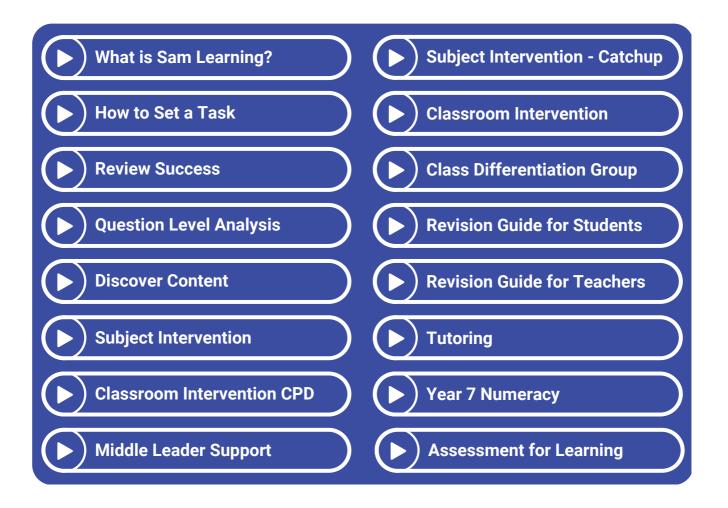


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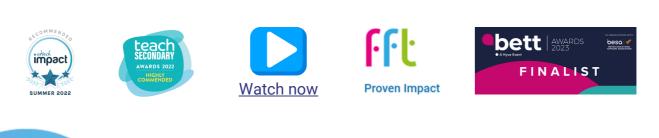


# **Quick Start Videos**



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