

SCHOOLWIDE REVISION RESOURCES COMBINED SCIENCE

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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 [email SAM Learning](#) 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!



[Watch now](#)



Proven Impact



"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.

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

[View Activities](#)

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KS3 and GCSE Exam Board COMBINED SCIENCE Coverage

AQA Combined 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
Measurements, Mass and Balanced Equations	25
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 Water	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	
Biology	48
Chemistry	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	439
Edexcel Combined Science	
Acids	21
Animal Coordination, Control and Homeostasis	19
Atomic Structure	5
Calculations Involving Masses	22
Cells and Control	20
Conservation of Energy	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
Groups in the Periodic Table	12
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
Reversible Reactions and Equilibria	20
States of Matter	2
The Periodic Table	25
Types of Substance	33
Waves	8
Grand Total	574

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 [Forgotten your Teacher Login page](#) 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 column.

[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 six-digit 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 [email](#) 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.



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Quick Start Videos

▶ What is Sam Learning?

▶ How to Set a Task

▶ Review Success

▶ Question Level Analysis

▶ Discover Content

▶ Subject Intervention

▶ Classroom Intervention CPD

▶ Middle Leader Support

▶ Subject Intervention - Catchup

▶ Classroom Intervention

▶ Class Differentiation Group

▶ Revision Guide for Students

▶ Revision Guide for Teachers

▶ Tutoring

▶ Year 7 Numeracy

▶ Assessment for Learning



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