

What is Science Toolbox?

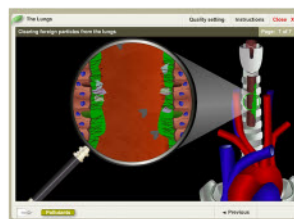
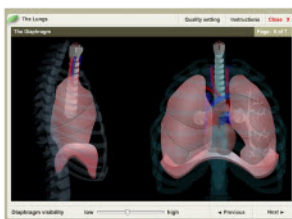
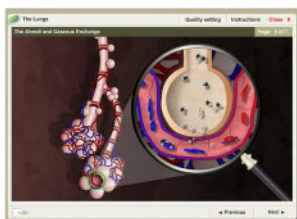
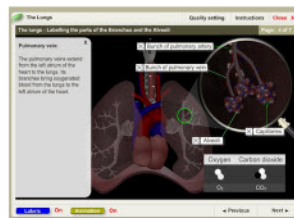
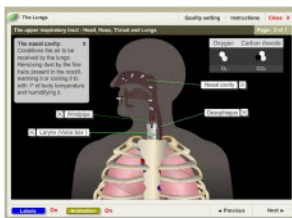
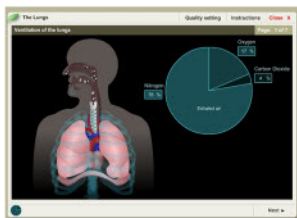
Science Toolbox is a suite of simulation software designed to reinforce essential science concepts. It consists of animations, simulations and virtual coursework that helps explain difficult to teach concepts and ideas. The hands-on interactivity of Science Toolbox has been developed in collaboration with writers, programmers, artists and most importantly classroom teachers. The resources are closely integrated with the syllabi of all major examining bodies and can be used to revise and reinforce plenary sessions by both teachers and students alike.

"It is rare in education today to find a resource which originates with practicing teachers, has been thoroughly tested on students and is both engaging and effective in addressing the learning of difficult scientific concepts. As someone who has been closely involved in testing the resources developed by Science Toolbox, I am excited by the potential of these materials and am entirely convinced of their educational value."

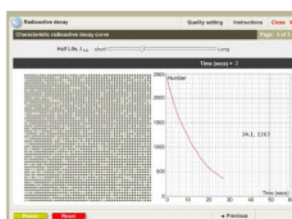
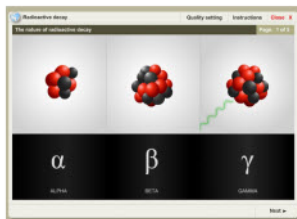
Philip Irwin BSc, PGCE, CPhys, MInstP. Science Advanced Skills Teacher.

"Where I have had the opportunity to showcase some of the material provided by Science Toolbox in trials, I have recorded unanimous appreciation of teachers who examine the software and enthusiastic comments on how they expect to use it in their teaching. I have no hesitation in recommending Science Toolbox resources to any science department who wish to use them in their programmes of study."

Peter Hollamby, BSc Tech), CSI., .Chem., M.R.S.C. Head of Chemistry, St. Cyres School.



The lungs and gaseous exchange



Alpha, beta, gamma and half-life

Science Toolbox software is designed as supplemental curriculum materials that support national curriculum standards

In addition, Science Toolbox helps teachers bring research-proven instructional strategies to their classrooms that make it easy to observe, discover, and explore science through fast-paced, exciting simulation.

Working closely with science educators, the Science Toolbox software team has developed an easy-to-use, visually appealing suite of programs that greatly enhance science instruction in the classroom.

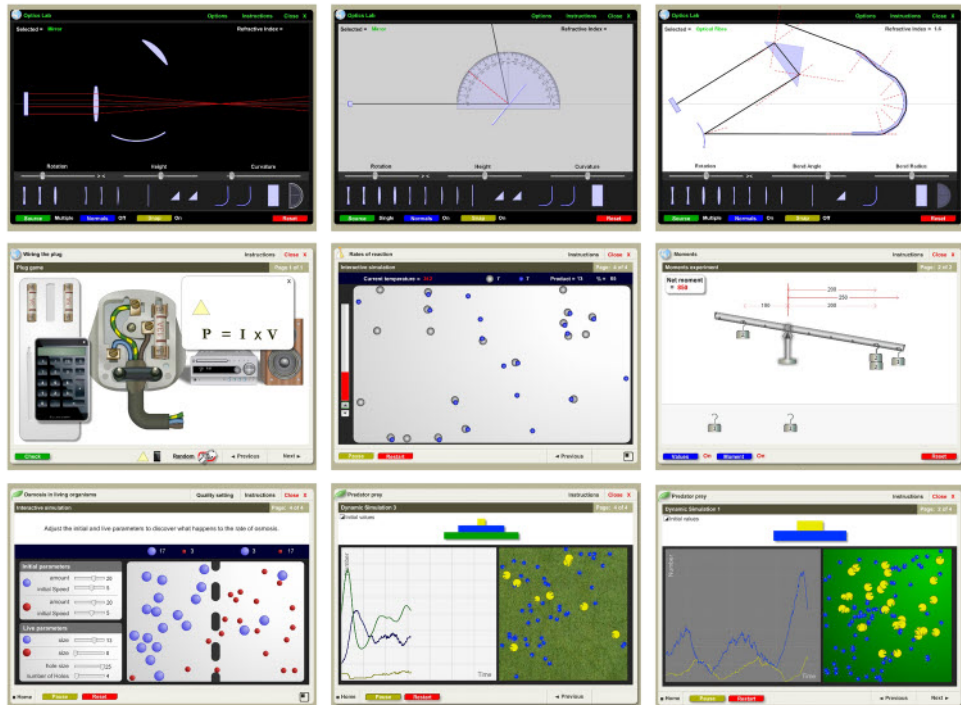
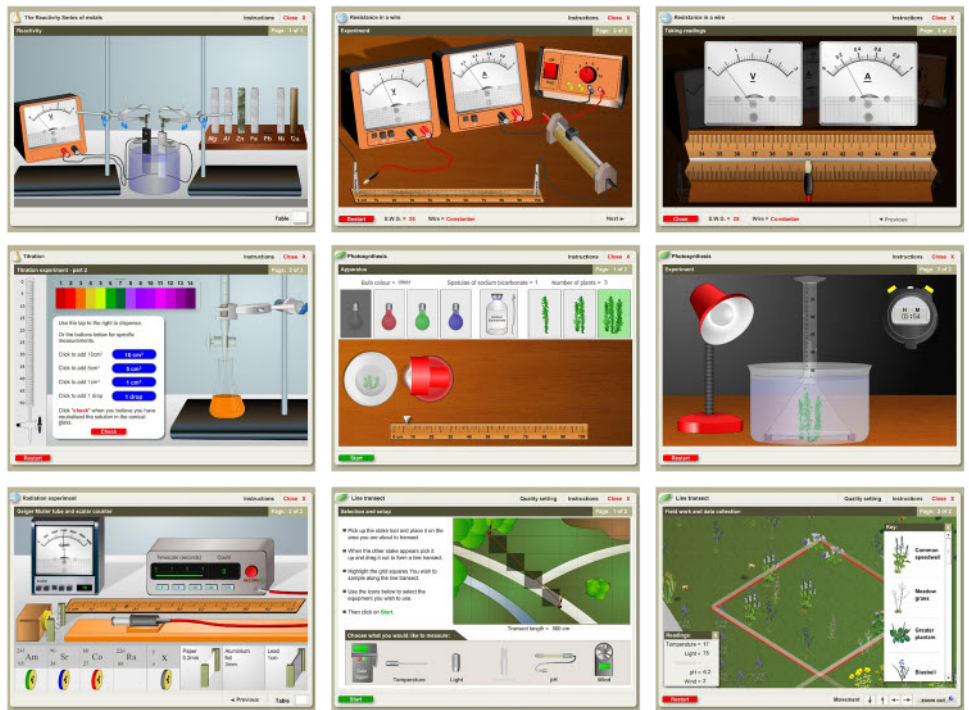
The Science Toolbox suite of interactive programs provides a sound basis of knowledge and understanding in addition to skills and processes required at KS3, KS4 and beyond.

For ease of use, each resource is mapped to key concepts throughout

Perform simulated experiments

Investigative assignments (SC1s etc.): data interpretation and practical skills. Identify independent and dependent variables, assess the reliability of qualitative and quantitative data and plot coordinates and lines of best fit.

Use the simulated results (obtained from real world experiments) to present, analyse and interpret data.



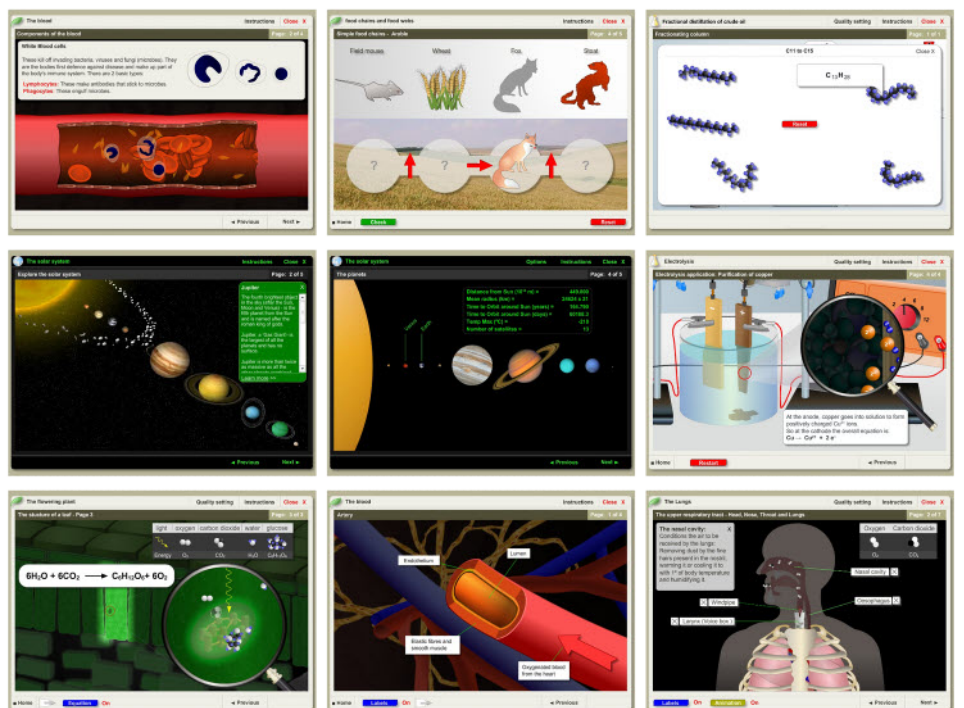
Investigate the change of variables on a system

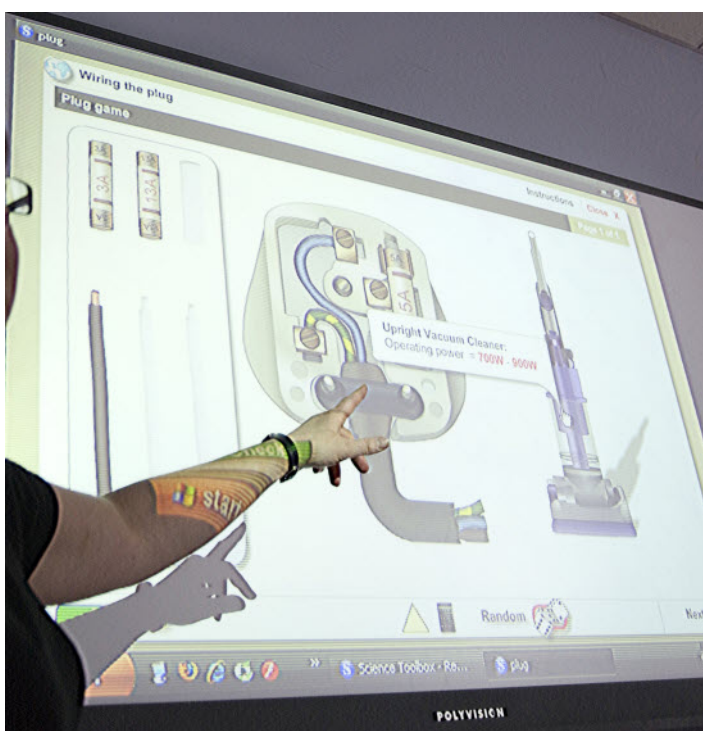
Explore scientific measurement of variables whilst developing inquiry skills and scientific knowledge by allowing the user to change variables and to measure their effect on measurable outcomes.

Teaching, Testing and Formative assessment

Form and Function: Labeling exercises including tissues, organs of biological systems, suitable for end of topic quizzes, starters or plenary sessions.

A fun way of checking the understanding of crucial concepts defined and explained illustrated with superb interactive animations.





Science (30 resources)		
ST101088	Institute site licence -	£895.00
ST101096	VLE licence -	£1,095.00
Chemistry (10 resources)		
ST101104	Institute site licence -	£395.00
ST101112	VLE licence -	£495.00
Physics (10 resources)		
ST101120	Institute site licence -	£395.00
ST101128	VLE licence -	£495.00
Biology (10 resources)		
ST101136	Institute site licence -	£395.00
ST101144	VLE licence -	£495.00

Prices valid until 31/12/2009. All prices ex VAT.

Biology

1. The heart
2. The blood
3. Environmental data logging (line transect)
4. Investigating photosynthesis and limiting factors (elodea plant experiment)
5. The eye, accommodation and iris reflex
6. The useful plant
7. Predator prey
8. The lungs and gaseous exchange
9. Food chains and food webs
10. Osmosis

Chemistry

1. Extraction of iron
2. Neutralising by titration
3. The periodic table
4. Reactivity
5. Fractional distillation
6. Electrolysis
7. Separating mixtures
8. Exothermic and endothermic reactions
9. Extraction and origins of oil
10. Cracking

Physics

1. Investigating resistance in wires
2. Optics lab
3. Fuses and calculating power
4. The Earth and Moon
5. Light, colour and the electromagnetic spectrum
6. States of matter
7. Alpha, beta, gamma and half-life
8. Investigating radiation
9. Solar system explorer
10. Moments

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