

Organisations concerned with the teaching of science and mathematics in Britain

1. ASSOCIATION FOR SCIENCE EDUCATION (ASE)

(a) History

The Association for Science Education was formed in 1963 from the Science Masters' Association (SMA) and the Association of Women Science Teachers (AWST). The SMA emerged (in 1919) from the Association of Public School Science Masters, founded in 1900; the AWST was formed in 1912. The membership of the ASE is now more than 11,500.

(b) Aims and objects

The objects of the ASE are to promote education:

- (i) by improving the teaching of science;
- (ii) by providing an authoritative medium through which opinions of teachers of science may be expressed in educational matters.
- (iii) by affording means of communication among people concerned with the teaching of science in particular and with education in general.

(c) Publications

The Association's journal *School Science Review* (SSR) is published three times a year (annual subscription 15/- to non-members). It also publishes five times a year a bulletin entitled *Education in Science* (2/- per issue to non-members).

Other publications include:

- (i) **The Science Masters' Book** (selected experiments from SSR-4th series)

Part I - Physics	£1 1s. —
Part II - Chemistry	£1 7s. 6d.
Part III - Biology	£1 5s. —
- (ii) **Modern Science Memoirs** (reprints of certain articles from SSR)
About 40 titles have been published (but not all are still in print), ranging in price from 1s. 6d. to 4s. Details from the ASE.
- (iii) **Secondary Modern Science Teaching**

Part I	10s. 6d.
Part II	8s. 6d.
- (iv) **The Teaching of Electricity** (with special reference to the use of MKS Units) 15s.
- (v) **Science and Education**

School Science and General Education (policy statement)	2s.
Physics for Grammar Schools	
Biology for Grammar Schools) new	2s. each

Chemistry for Grammar Schools) syllabuses	
Teachers' Guide to Physics for Grammar Schools	2s.
Science in Sixth Form General Education	
Tested Experiments for use with Chemistry for Grammar Schools	7s. 6d.
(iv) Modern Physical Science Reports (loose leaf sheets)	
The Teaching of Modern Physics Part I (a suggested teaching approach)	5s.
The Teaching of Modern Physics Part II	6s.
(vii) Primary Science Series	
A policy statement	1s.
Book 1 Children Learning through Science	3s. 6d.
Book 2 List of Books	6s. 0d.
Book 3 List of Teaching Aids	2s. 6d.
Book 4 Materials and Equipment	3s. 0d.
(viii) Science Books for a School Library 1959	3s. 6d.
Annual supplements	1s. 9d. each
(ix) Safeguards in the School Laboratory	1s. 9d.
All orders for publications should be prepaid and the cost of postage should be added.	

(d) Affiliation with overseas associations

The ASE (and previously the SMA and AWST) encourages affiliation with overseas associations in all countries (in accordance with Rule 19 of the Association and with the Trust Deed).

The benefits of affiliation include:

- (i) the interchange of publications and research papers;
- (ii) reciprocal membership privileges for science teachers visiting or studying in each others countries;
- (iii) encouragement of correspondence between individuals with similar interests;
- (iv) facilitating visits on an exchange basis.

It is essential that the aims and objects of the affiliated association should be the improvement of science teaching and that the association is not primarily concerned with teachers' salaries or conditions of employment. Before affiliation the ASE asks for:

- (i) a copy of the Resolution at the Annual Business Meeting requesting affiliation, and.
- (ii) a copy of the Constitution and Rules of the association.

Affiliated associations receive free of charge through their Secretaries the School Science Review and Education in Science.

(e) Overseas membership of the ASE

The subscription for an individual overseas member of the ASE is £1. 5s. 0d. per year, and for this he receives School Science Review and Education in Science.

(f) **Address for further information:**

The General Secretary (Mr. E. W. Tapper),
Association for Science Education,
52 Bateman Street,
Cambridge.

2. THE SCHOOL NATURAL SCIENCE SOCIETY

(a) **History**

The Society was originally established in 1903 as the School Nature Study Union.

(b) **Aims and objects**

The Society is concerned with the development of natural science, including biology, natural history, nature study and the physical sciences at all levels of education.

(c) **Publications**

The Society publishes three times a year a journal entitled *Natural Science in Schools* (7/- a year to non-members), which contains articles on various scientific subjects and on teaching techniques as well as report on the work of the Society. It also publishes a series of *Natural Science Leaflets* which can be obtained from the address given in (e) below.

(d) **Membership**

The individual membership subscription is 10/- a year and includes *Natural Science in Schools*. The subscription secretary is Miss D. H. M. Edwards, 8 Sandy Lane, Sevenoaks, Kent.

(e) **Address for further information**

Miss M. J. Sellers (Honorary Secretary)
2 Bramley Mansions,
Berrylands Road
Surrey.

3. THE MATHEMATICAL ASSOCIATION

(a) **History**

The Association was founded in 1871.

(b) **Aims and objects**

The main aim is to foster good methods of teaching mathematics at all levels.

(c) Publications

The Association publishes a quarterly *Mathematical Gazette* (30s. a year) which contains articles and information on new mathematical projects and developments. It also issues a number of special publications of which the following are noteworthy:

Applications of elementary mathematics	2s. 6d.
Mathematics in secondary modern schools	12s. 6d.
A report on the teaching of arithmetic in schools (1984)	6s. 0d.
The teaching of algebra in schools	6s. 0d.
The teaching of analysis in sixth forms	7s. 6d.
The teaching of mathematics in primary schools	6s. 0d.

(d) Membership

The individual membership subscription is 30s. a year which includes the *Mathematical Gazette* and sundry reports and newsletters.

(e) Address for further information

The Mathematical Association,
22 Bloomsbury Square,
London, W. C. 1.

4. THE ASSOCIATION OF TEACHERS OF MATHEMATICS (ATM)**(a) History**

The Association was formed in 1952.

(b) Aims and objects

The principal aims are the promotion of the study of the teaching of mathematics and the improvement of the aids used therein.

(c) Publications

The journal of the Association is entitled *Mathematics Teaching* (5s. per issue to non-members) and is issued quarterly. The editorial address is *Vine Street Chambers, Nelson, Lancashire*.

(d) Links with overseas associations

The ATM is known to be particularly anxious to develop links with corresponding overseas associations.

(e) Membership

The individual membership subscription is £1. a year and includes *Mathematics Teaching*.

(f) Address for further information

E. H. Leaton, Esq.,
30 Station Road,
Sidcup,
Kent.

5. PROFESSIONAL SCIENTIFIC INSTITUTIONS

The Royal Society, jointly with the appropriate professional institutions which provide the secretariats, established in 1962 British committees concerned with the teaching of biology, chemistry and physics. The committees are representative of all the major interested organisations in Britain, including the Department of Education and Science, the Schools Council, the ASE, Examining Boards, the Scottish Education Department and the Ministry of Education of Northern Ireland. Their functions are essentially advisory but they do undertake the necessary co-ordination of activities such as teachers' refresher courses and the dissemination of information. In addition the professional institutions associated with these committees themselves publish journals on science education and sponsor other activities for science teachers. Further details of the professional institutions, including addresses, are given below:

(a) Royal Institute of Chemistry (RIC)

Address: 30 Russell Square,
London, W. C. 1.

Educational publications:

- (i) Education in Chemistry, published six times a year subscription £2 a year (30/- for members of the RIC).**
- (ii) Monographs for Teachers - a series of occasional publications (nine published, so far). Prices 3s. 6d. to 7s. 6d. Details from the RIC.**

(b) Institute of Physics and the Physical Society

Address: 47 Belgrave Square,
London, S. W. 1.

Educational publication:

Physics Education published four times a year from May 1966.
Subscription £1.

(c) Institute of Biology

Address: 41 Queen's Gate,
London, S. W. 7.

It is proposed to publish a journal on biological education beginning in 1967.

There is also a series of Studies in Biology intended for teachers of biology. This series, of which the first six will be available in 1966 is published for the Institute of Biology by Edward Arnold & Sons.