

Appendices

Appendix A: 'Personal' inventory

Teaching mathematics is like ...

Learning mathematics is like ...

What I like most about teaching mathematics is ...

What I like least about teaching mathematics is ...

Mathematical ideas come from ...

My mathematics teaching has changed recently in that I now ...

Mathematics is important in school because ...

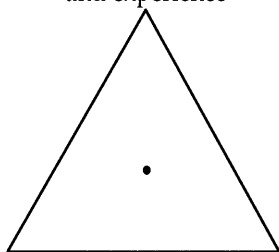
Mathematics is a cultural activity, in that ...

Mathematics is a solo activity, in that ...

In each of the following diagrams, place a point in the triangle which represents your view as a combination of the three views expressed at the corners. The central dot represents a perfect balance of all three forces.

Mathematics is taught because it is important

in human thinking
and experience

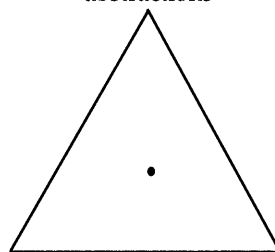


in science
and engineering

in the national
curriculum

Mathematical ideas come from:

abstractions

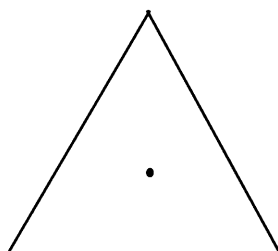


physical situations

books and libraries

Mathematics is best learned by:

thinking things through yourself

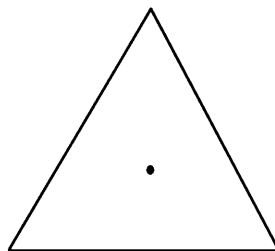


activities using
apparatus

reading

Pupils learn by:

talking with each other



doing things
themselves

participating
in a group

When choosing a task for pupils, my primary concern is to select ones that ...

I have chosen to organise my classroom so that pupils ...

The best advice I could offer a newly qualified teacher would be to ...

When planning for work on a new topic, I always include (*please select from or add to this list*):

exposition,	exploration,	exercises,
work from cards/booklets/text,		homework,
whole-class discussion,		small-group discussion,
asking pupils questions to find out what they already know, ...		

When I am successful with a mathematical problem, it is usually because ...

When I am not successful on a mathematical problem, it is usually because ...

I want my students to experience mathematics as ...

I can influence my pupils most by ...

I believe that (*please indicate strength of agreement, and add any others of your own at the end*):

- if I really try hard I can get through to most pupils;
- if some pupils are struggling, I should change my approach;
- pupils' motivation reflects my interest and involvement;
- I am responsible for what pupils learn;
- ultimately, all I can do is offer possibilities; pupils must take responsibility for themselves as learners;
- my job is to explain things clearly and logically to pupils, to structure their activities.

I see myself as primarily a ...

Teaching students is like ...

What I like most about teaching is ...

What I like least about teaching is ...

What I like most about research is ...

What I like least about research is ...

What I like most about administration is ...

What I like least about administration is ...

My teaching tends to emphasise (particular techniques, practices, ..., general theory, processes of thinking, ...) ...

My subject is best learned by (doing exercises, practical experience, studying from books, talking to fellow students, attending lectures, ...) ...

When designing tasks for my students, my primary concern is to select ones that ...

I have chosen to organise my contact time so that students ...

What exactly would I like to improve for my pupils/students?

How would I recognise improvement?

What implications does this have for my own practice?

What are my three most frequent gambits? What purposes do they serve?

Appendix B: 'Other' inventory

Addressed to pupils

What do you like most about lessons with me?

What do you like least about lessons with me?

Do I give you as much attention as other students? Who do you think gets the most attention, who the least?

Would you like more or less attention?

You and I interact in various ways (one-to-one, in a small group, whole class). Which of these do you prefer, when and why?

How many different types of lessons with me are you aware of? Please describe or try to characterise them!

Addressed to colleagues

If you came into my classroom, what would you expect to see happening (classroom organisation, forms of interaction, etc.)?

What do you think is most important about my teaching for me?