

Numeracy and ICT

Objective

By the end of this session teachers will:

- be familiar with some small programs that support the development of number skills in the primary grades.

Resources

For the trainer

- Computer with data projector, Microsoft PowerPoint and Presentation 13.ppt, and MicroSmile software (see below)
- Overhead projector (OHP)
- Whiteboard or flipchart
- Copies of the evaluation forms for Day 4 (see end of *Trainer's notes*)

For each pair of teachers

- Computers equipped with MicroSmile software (for ordering details, see www.smilemathematics.co.uk):
 - Numeracy*, installed on one quarter of the computers
 - Sense of number*, installed on one quarter of the computers
 - Enriching number*, installed on one quarter of the computers
 - Properties of number*, installed on one quarter of the computers

NOTE: You could if you wish use alternative software. In this case, you will need to replace Handout 13.1 with suitable notes.

For each teacher

- *Teacher's pack*
Handout 13.1
Evaluation form for Day 4

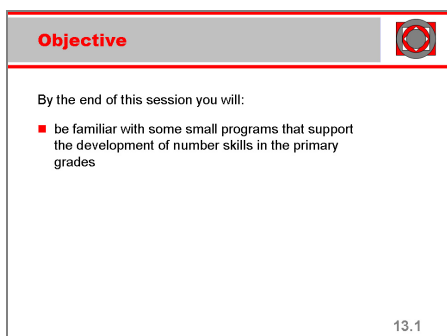
Session outline

Introduction Slide 13.1	Whole group presentation and discussion	15 minutes
Workshop Handout 13.1	Hands-on activities Groups to rotate around four activities	60 minutes
Conclusion Evaluation form for Day 4	Summary of key points	5 minutes

Introduction

15 minutes

Use **slide 13.1** to introduce the objectives for the session.



The slide is titled 'Objective' and features a small icon of a computer monitor. The text on the slide reads: 'By the end of this session you will: be familiar with some small programs that support the development of number skills in the primary grades'. The slide number '13.1' is located in the bottom right corner.

Before the session starts, brief any interpreter about the key points of the session.

Set up the computers in readiness.

Load **Presentation 13.ppt**.

Introduce the software and demonstrate one program from each set. Refer to the collections as:

Set A: Numeracy

Set B: Sense of number

Set C: Enriching number

Set D: Properties of number

Workshop

60 minutes

Refer everyone to **Handout 13.1**. Say that this lists the programs in each set. The right-hand column is for teachers' notes.

Ask teachers to work in pairs. Divide the pairs into four groups: A, B, C and D. Ask group A to move to the computers loaded with set A, group B to the computers loaded with set B, and so on.

Tell the teachers that they have about 15 minutes to explore the software. Remind them to consider how each program would fit with their curriculum plans. Rotate the groups at 15-minute intervals.

Conclusion

5 minutes

Bring the whole group together. Remind them how to use the software in class. Say that there are three main ways to do it:

- the teacher can demonstrate on an interactive whiteboard or computer linked to a data projector, and lead the activity with the whole class;
- students can work in pairs at computers in a computer room;
- pairs of students can take turns to work at a computer at the side of an ordinary classroom while the rest of the students work on other activities.

Explain that the final day will include more activities with ICT using calculators and computers.

Thank everyone for their contributions during the day. Invite them to complete the evaluation form for the fourth day and to give it to you before leaving.