**Haringey NRICH London Schools Excellence Fund project**

**What does it mean to understand?**

**“ I feel I understand something if and when I can do some, at least, of the following:**

1. State it in my own words;
2. Give examples of it;
3. Recognise it in various guises and circumstances;
4. See connections between it and other facts or ideas;
5. Make use of it in various ways;
6. Foresee some of its consequences;
7. State its opposite or converse.

*How children fail, J Holt, 1964*

**What is it that allows learning to happen?**

**Mathematics teaching at all levels should include opportunities for:**

Exposition by the teacher;

Discussion between teacher and pupils and between pupils themselves;

Appropriate practical work;

Consolidation and practice of fundamental skills and routines;

Problem solving, including application of mathematics to everyday situations;

Investigational work.

*Mathematics Counts: Report of the Committee of Enquiry, W H Cockcroft (Chair), HMSO, 1982*