**Subject Knowledge Enhancement Core Content**

**Session 3: Additive Reasoning- part 1**

In this session, we considerthe definition of additive reasoning, in comparison to addition. We categorise addition and subtraction problems, based upon their various structures and we begin to look at each one of these in detail; starting with Combining (aggregation and separation) and then Change (augmentation and reduction).

You will need: [Additive Reasoning\Session 3- Additive Reasoning Handout.doc](Session%203-%20Additive%20Reasoning%20Handout.doc) (please print out and cut up in advance), a group of 5 similar objects that can be stood up eg pencils, dolls etc

Video links: Comparing the combining (aggregation & partition) and change (augmentation & reduction) structures of addition [https://www.ncetm.org.uk/resources/50723 (see video](https://www.ncetm.org.uk/resources/50723%20%28see%20%20video))

Resource links: Number Talk images <http://ntimages.weebly.com>