The following guidance is taken from the KS3 Multiplicative Reasoning project. You may wish to adapt it for your professional development activities.

**KS3 Multiplicative reasoning project - lesson study guidance**

* Lesson Study provides teachers with opportunities to observe their colleagues and others in a spirit **of mutual development** and **professional** learning – **it is not a tool for teacher evaluation.**
* The lesson study is a collective effort owned and discussed in a non-judgmental way.
* In essence, lessons study focuses the mind of the teachers involved on pupil understanding so that the teachers learn about ‘**guiding pupils to understand**’ rather than to simply getting the right answers.
* It is built round a ‘research question’ about a defined aspect of teaching and learning and at its heart is anticipating pupils’ responses, and planning what the teacher will do accordingly, to help pupils overcome their own difficulties

|  |
| --- |
| **The KS3 project lesson study cycle** |
| **Planning**Stage 1 | **Prior to meeting:*** choose lesson and **focus** for lesson study *(research question)*
* Core teachers need to study lesson plan adapting it for the particular groups it will be used with *(circulate plan to other members of study group)*
* *All teachers then:*
	+ work through the maths problems**, anticipating pupil responses** and possible **teacher responses**
	+ study **lesson commentary** noting key points relevant to Lesson study focus
 |
| **Meeting** *(complete stage 1 of pro-forma):** Agree and record the **key points in lesson** with respect to Lesson study focus to pay careful attention to during the observation *(make reference to lesson commentary)*
* Note any **anticipated** responses and **misconceptions** from pupils in relation to the key points
 |
| **Teaching**Stage 2 | * Observers record relevant evidence completing stage 2 of pro-forma
 |
| **Post-lesson discussion**Stage 3 | * Discuss and analyse evidence including examples of pupils work/views
* Amend the plan for re-teaching by second core teacher *(completing stage 3 of pro-forma)*
 |
| **Reteach lesson**Stage 4 | * Core teachers reverse roles
 |
| **Summary**Stage 5 | * Discuss and record brief bullet points on stage 4 of pro-forma summarising any overall conclusions in relation to the lesson study focus
 |

**Extracts from: ‘*Problem solving and the use of Lesson Study with Bowland materials’***

|  |  |
| --- | --- |
| **KS3 project - Lesson study** | Project school - |
| **Stage 1 Pre teaching planning activity** | Date: | Class |
| **Unit:** | **Lesson:** | Range of attainment |
| **Lesson study group** *Core teacher 1 -**Core teacher 2 –* *Others: -* | **Learning objectives of lesson:***
*
 |
| **Lesson study focus:** |
| **Key points identified from the lesson plan** *to pay careful attention to in relation to the focus* *
*
*
*
*
*
 | **Anticipated responses** *pupils are likely to make* | **Possible teacher responses** |
| **Further notes:** |

|  |  |
| --- | --- |
| **KS3 project - Lesson study** | Date:  |
| **Stage 2 Observation of target lesson** | Class |
| **Unit:** | **Lesson:** | Range of attainment |
| **Learning objectives of lesson:***
*
 |
| **Evidence** *Record evidence related to lesson study focus* *
*
*
 | **Notes/comments**  |
| **Further notes:** |

|  |  |
| --- | --- |
| **KS3 project - Lesson study** | Date:  |
| **Stage 3 Post teaching discussion** | Class |
| **Evidence** *
*
*
 | **Analysis** | **Notes for re-teaching** |
| **Summary of key changes to lesson for teaching to 2nd class:***
*
*
*
 |

|  |  |
| --- | --- |
| **KS3 project - Lesson study** | Date:  |
| **Stage 4 Observation of retaught lesson** | Class |
| **Unit:** | **Lesson:** | Range of attainment |
| **Learning objectives of lesson:***
*
 | **Key changes and points** *to pay careful attention to in relation to the LS focus* in the retaught lesson*
*
*
*
 |
| **Evidence** *Record evidence related to focus below**
*
*
 | **Notes/comments** |
| **Further notes:** |

|  |  |
| --- | --- |
| **KS3 project - Lesson study** | Date:  |
| **Stage 5 Post teaching discussion** | Class |
| **Evidence** *
*
*
*
 | **Analysis** |
| **Final summary***
*
*
*
*
 |