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** | | |