Checklist to Guide Mathematics Lesson Development¹

This checklist is designed to accompany your development of a lesson and serve as a final quality check of that lesson for the lesson study.

1. Set up the lesson and establish the learning goals: What are the learning goals for students in this lesson? What must students know and be able to do to meet the goals? How long should this lesson take to complete (e.g., number of class sessions or hours)?

Notes:

2. Identify the level-specific college and career readiness (CCR) mathematics standards that are the targets of the lesson: What CCR content standards are targeted in the lesson? Do they represent the Major Work of the Level (MWOTL)?²

_____The lesson@argetsBtandards that@epresent@he@MWOTL.2 _____Theffocus@fBupporting@work@s@n@nhancing the@MWOTL.2

¹ Drawn from essential elements of the *Lesson Planning* **T**ool **T**rom Student Achievement Partners. Accessed January 18, 2015: http://achievethecore.org/lesson-planning-tool

² Use the CCR Content Progressions (#2) to assist with the selection and identification of content for items 2 and 4.

3. Identify workplace contexts for the lesson. What workplace skills are targeted in the lesson? Is the lesson contextualized to a sector focus?

_____AppropriateBkillsfrom theFoundationSkillsFrameworkBreIargeted.2 _____ThereBreIdescriptionsBabout connecting content toBappropriateBtareer pathways.2

Notes:

- 4. Identify the Standards for Mathematical Practice that are the focuses of the lesson: What specific Standards for Mathematical Practice are central to the goals of this lesson? How can students' abilities to apply those practices be observed and assessed?³
 - _____At Deast one Dand Dano Danore Dahan Gour Standards Gor Dathematical Deractice Dare Data targeted. D
 - _____Theretwretwescriptionstabout the total and the termination of the content terms and the content terms and the content terms and the content terms are content to the content terms and the content terms are content to the content terms are content terms are content to the content terms are content to the content terms are content to the content terms are content terms are content terms are content to the content terms are content terms a

³ Use the Standards for Mathematical Practice (#3) to assist with the selection of practices for item 3.

5. Address how the lesson contributes to coherence: What foundational knowledge is needed for successful learning in this lesson? How do concepts acquired in this lesson support future learning?

_____Foundational Iknowledge Is Itlearly Identified. 2

_____Connections&re@nade@s@to@how@the&tontent@f@this@esson&upports, and@s2 connected@to, future@earning.2

Notes:

6. Address rigor: Which aspect(s) of rigor are required by the targeted standards? Do the tasks and activities of the lesson address those aspects? What thought-provoking problems or tasks is the whole class asked to solve? On which problems or tasks will students work independently, or with a partner or small group?

____Problems&nd@tasks reflect@the@tesson's@targeted@tspects@bf@tigor.@

- ____Tasksඔndඔctivitiesඔddressඔconceptualඔnderstanding. ව Examplesඔfඖordsව thatඔignal conceptualඔnderstandingඔrer funderstand, "Tinterpret," ව "recognize," Tdescribe, "ඔndTexplain." ව
- ____Tasks&nd&ctivities&ddress&rocedural&kill&nd&luency.2Examples&f2 words&hat&ignal&rocedural&kill&nd&luency&reEfluently,"Ecompute,"2 "convert,"&ndErewrite."2
- ____Tasks&nd&ctivities&ddress&pplication.2Examples&f&hrases&hat&ignal2 applications&re2'real&vorld"&nd2'word problems."2
- _____Directions@re@rovided@n@when@he@roblems@hould@be@olved@ndependently,2 with@artners@r&mall@roups,@r@s a whole@lass.2

7. Include essential mathematical vocabulary: What explanations, representations, and/or examples are needed to make the mathematics of this lesson clear?

_____MathematicalIntermsImportantIntoIntenceptsInfIntencessonInreIndentifiedIntal defined.2

_____Examples,@ncluding@xplanations,@liagrams,@raphs,@nd/or@tharts,@re@jiven toව provide a clear@understanding of the@nathematical@anguage,&ituation, orව context.ව

Notes:

8. Identify discussion questions that allow students to share their thinking: When will student sharing happen in this lesson? What are the expected responses to the discussion questions? How will student understanding be judged based on the discussion?

_____High-level discussion questions areprovided to mathematical thinking.

_____ExpectedBampleBtudentBesponses,BandBuggestionsfor interpretingBhose2 responses,Bare provided.2

- **9. Develop checks for understanding:** What strategies and opportunities will be used to check for student understanding throughout the lesson?
 - _____Formative&nd&elf-assessments that&re&onnected@o&he lesson's&yoals&re2 included.2
 - _____Summativedesson@raunit@ussessments@that@ure@connected@to@thedesson's@yoals2 are@ncluded.2
 - _____Answer keystaretprovidedfortalltassessments,talongtwithtaubricstortaguidelinesfortage interpretingtudenttagerformance,twhen needed.tage interpretingtudenttagerformance,tawhen needet interpretingtudenttagerform