**Adapting Problems to Make Them Groupworthy**

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*One of the common challenges teachers experience when using groupwork in math classes is that the problems they are using are not sufficient to engage and motivate students. Bring problems you're working on (or a textbook or exam you use in your class), and we'll workshop them together and find ways to make them "groupworthy."*

***Groupworthy Task****: a task “worthy” of being solved by a group of students*

* *Challenging enough that one person cannot easily solve it on their own*
* *An element of uncertainty and ambiguity (ill-structured)*
* *Problems necessitate interdependence between students*
* *Tasks are mathematically rich and high cognitive demand*
* *Many paths to a solution / No clear path to a solution*
* *Multiple abilities / Multiple representations*

***Resources:***

* *Adapting Problems to Improve their Groupworthiness*

<http://blogs.ams.org/mathgradblog/2017/07/27/adapting-problems-improve-groupworthiness/>

* *Designing Groupwork: Strategies for the Heterogeneous Classroom:* [https://www.amazon.com/gp/product/0807755664](https://www.amazon.com/gp/product/0807755664?sa-no-redirect=1&pldnSite=1)
* *Transforming from the Bottom Up: A Book Review of Mathematics for Equity: A Framework for Successful Practice*

<http://ed-osprey.gsu.edu/ojs/index.php/JUME/article/viewFile/240/164>

* *Struggling Students in Mathematics: Creating Equity-Based Curricula and Pedagogies (Forthcoming White Paper)*