Supplemental Digital Content, Figure 1: Example from NGN Cookbook question “recipe” module of tips for writing and using multiple response matrix questions.

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| **Tips for Writing:** The MR matrix item is an extended select all that apply that has multiple table columns/options that could be selected for each answer choice (row). Ensure that students know that they can select one or more answers per row. Here are some ideas for implementing these questions: 1. High-tech:
	* Use questions online for live polling in class. Show chart in PowerPoint and/or in question software (Microsoft or Google Forms, etc.) and have students input their answer choices using the question software. This could work with any type of program that allows a matrix-style question. Note: some programs allow creation of a Likert-style matrix; however, Likert-style questions only allow one answer per row.
	* Compatible software: [LMS “recipe” page listed several examples of polling, question, or activity software programs or applications and how to set up a question using that program/application.]
2. Low-tech/Hands-on:
	* Give students questions on a Word worksheet as an in-class activity, assignment, or pre-class assignment ("ticket to enter").
	* Show question in PowerPoint and work through questions as a group.
	* Set up a patient room scenario or show a video and have students select what is concerning, top priority assessments, actions, evaluation findings, etc. out of various categories. This could be done for in-class simulation or case study scenarios.
	* Provide the chart/scenario to the class and have students work in groups to select answers. Faculty can put categories (choices from column headers) on the in-class white board for students to go up to boards and write their answers or can use large post it notes around the classroom.
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