

## **IMMEX Problem Set Feasibility Check**

Before investing hours of work, resources, and brain power on a problem set, determine if the problem is time worthy. Objectively conduct a feasibility check on your problem set idea.

1. **Cognitive Task Analysis Check:** *Will the problem set provide evidence that students have the knowledge, skills, and mental processing you would like to assess?*

0-----5  
No Yes

*(If score is less than five, stop now and discard problem.)*

2. **Clonability Check:** *Are four or more clones possible?*

1-----2-----3-----4  
One Clone Two Clones Three Clones Four Clones

*(If clones are less than four, stop now and discard problem.)*

3. **Multiple Pathways Check:** *Are there multiple pathways to solve the problem?*

1-----2-----3-----4-----5  
One Pathway Two Pathways Three Pathways Four Pathways Five Pathways

*(If score is less than five, stop now and discard problem.)*

4. **Novice-Expert Strategy Types Check:** *Will data capture novice-expert strategy types?*

1-----2-----3-----4-----5  
Guessing Prolific Redundant Gaming Efficient

*(If 1 to 5 are not possible, stop now and discard problem.)*

5. **Curriculum/Standards Alignment Check:** *Does the problem address a topic that is a part of your school's "required" course curriculum?*

0-----5  
Not Part of Course Curriculum Part of Course Curriculum

*(If score is less than five, stop now and discard problem.)*

6. **STEM Career Check:** *Does the problem set integrate issues related to at least one STEM career?*

0-----5  
No STEM Career Issue Integrated One or More STEM Career Issue(s) Integrated

*(If score is less than five, stop now and discard problem.)*