

## Opening Gateways STEM Application Template

*From the Opening Gateways Title V Contract:*

Opening Gateway Faculty Fellows are expected to use at least one of the following pedagogies: Flipped Instruction, Active Learning, Technology Enhanced Instruction and provide:

1. A content-appropriate STEM application (a module or assignment) utilizing tools and techniques from the seminar.
2. Associated OERs specific to that STEM application.
3. Syllabus (or syllabus addendum) that explains the role of active learning strategies and OERs in their classroom.

<b>STEM Application Title:</b>	
<b>Your Name and link to OpenLab profile (if applicable)</b>	
<b>Discipline(s):</b>	
<b>Course and link to OpenLab course site (if applicable):</b>	
<b>Email:</b>	

**STEM Application Description:**

*Provide a brief description of your application.*

**Learning Goals:**

*What do you aim to achieve with this application?*

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### **Timing:**

*At what point in the lesson or semester will you use this application? How much classroom time will you devote to it? How much out-of-class time is expected?*

### **Logistics:**

*What preparation is needed for this application? What instructions will you give to students? Is the application low-stakes, high-stakes, or something else?*

### **MATH 1275 Competencies:**

*Which of City Tech's MAT 1275 Learning Outcomes*

*<http://www.citytech.cuny.edu/mathematics/docs/courses/MAT1275.pdf> does this application address?*

*Please be as precise as possible.*

### **Active Learning Pedagogies:**

*Which of these practices does this application incorporate? Choose all that apply and/or add your own.*

- |  |   |
|--|---|
| <input type="checkbox"/> Flipped Instruction                 | <input type="checkbox"/> Cooperative learning                   |
| <input type="checkbox"/> Technology Enhanced Instruction     | <input type="checkbox"/> Writing-intensive projects/assignments |
| <input type="checkbox"/> WeBWorK                             | <input type="checkbox"/> Collaborative assignments and projects |
| <input type="checkbox"/> Open Digital Pedagogy (the OpenLab) | <input type="checkbox"/> Inter/Multidisciplinary Projects       |
|  | <input type="checkbox"/> Inquiry based learning                 |
|  | <input type="checkbox"/> Problem- based learning                |

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*Other (please describe):*

### **Assessment:**

*How will you assess this application? What assessment measures will you use? Will you use a [value rubric](#)? If not, how will you develop your rubric?*

### **Open Educational Resource (OER):**

*What OER will you create to facilitate your STEM Application? Where will your OER “live,” and how will students be given access to it? Will your OER be used during classroom instruction time?*

### **Reflection (to be completed in spring 2017):**

*How well did this application work in your classroom? Would you repeat it? Why or why not? What challenges did you encounter, and how did you address them? What, if anything, would you change? What did students seem to enjoy about the application?*

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### **Additional Information:**

*Please share any additional comments and further documentation of the application - e.g. assignment instructions, rubrics, examples of student work, etc. These could be in the form of PDF or Word files, links to posts or files on the OpenLab, etc.*