

Classroom Rollout Strategies

Taking on a project as big as the STEM Expo can be daunting. Use these strategies to help make it more manageable!

STEM Expo Resources Google Folder: https://goo.gl/qvrC7C

- 1. Review each category with your students and show examples. (1-2 hours)
 - Share every category with the whole class and encourage them to reserve their decision until they've heard about each one.
 - View the <u>official category descriptions</u> or the <u>simplified category</u> <u>descriptions</u> and the <u>category rubrics</u>
 - View past winners and event photos: <u>stemexpo.orq</u>
 - Past Science Fiction Winners
 - A sample of 2017 submissions
 - 2018 Placer County photos
 - 2017 Placer County photos
 - Talk about Demonstrations VS Experiments (blog article)
 - Alternatively, restrict your class to fewer project categories.
 - This can be effective in elementary school and will be easier to manage.
 - Be sure to have a schoolwide discussion amongst your teachers about which categories you wish to open up in each grade.
- 2. After students choose a category, then provide planning time! (1-3 hours)
 - Give students time to do research on their own before selecting a topic.
 - Have students complete a planning form (<u>feel free to take this one!</u>)
- 3. After researching possible project ideas, allow students who are doing projects in the same categories to talk in a group and brainstorm ideas. (1-2 hours)
 - Provide groups with the category requirements and allow them to discuss. This will help clarify their understanding of the category. <u>Use this document as desired</u>.
 - Project groups may naturally form from these discussions as students share their interests.
 - Complete a <u>project proposal form.</u>

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- 4. After some project work has been completed, have students go through a project tuning and/or peer critique with other students. (time depends on group size and chosen protocol)
 - Project tuning and peer critique are powerful elements of PBL and can be used to refine STEM Expo projects.
 - Learn more about project tunings and peer critique here:
 https://gse.hightechhigh.org/design/critique.php
 - Project tunings and peer critique can be done at almost every age. The site above has protocols for tunings of varying length. Little experience is needed to conduct a tuning!
 - Peer critique can be repeated as project work progresses. These provide valuable perspectives that can help improve project work.
 - If you would like more detailed information on project tunings and/or peer critique contact your STEM county coordinator:
 - o Glenn County Darren Massa, dmassa@glenncoe.org
 - o Placer County Heidi Espindola <u>hespindola@placercoe.k12.ca.us</u>
- 5. Have STEM Expo work days regularly, but not necessarily every day!
 - You likely have other things to accomplish in your class...don't feel like you need to work on STEM Expo all day, every day.
 - As the Expo gets closer, make work time more frequent.
 - Provide reasonable goals or checkpoints along the way.

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