

THE POGIL ACTIVITY PATHWAY

The *objective* of **The POGIL Pathway** is to support POGIL practitioners through the entire process of creating POGIL content from idea generation through submission, review, approval, and community validation. A corollary objective is the development of a set of materials that have been broadly reviewed and tested to meet the high standards of The POGIL Project.

Activity ideas (Stage 0)

Goal: To support the POGIL community to identify areas of need, generate ideas for activities, and connect POGIL activity authors.

Authors can submit *Activity ideas*. Authors can begin with as little as a proposed title, activity type (learning cycle, activity, lab, or mixed) and a target education level (from middle school through advanced post-secondary) so that similarly minded authors can begin collaboration to develop the idea into an initial activity. It is hoped that ideas will become draft activities as described in Stage 1.

Draft (Stage 1)

Goal: To assess the quality of an initial activity draft and establish that it has the potential to be evaluated at the satisfactory level (at a minimum) according to the POGIL activity rubrics.

Activities begin the path to approval with submission of a draft activity that includes, at minimum, a title, a concept and/or process goal, a model, and critical thinking or application questions. A *curator* will screen activities against a simple rubric that establishes that the activity has the potential to become an approved POGIL activity. The curator will mark the activity as meeting the *Draft* criteria within the database, and the activity may then be moved to Stage 2 once the authors agree to the Policy Statement of the POGIL Activity Clearinghouse.

In Development (Stage 2)

Goal: To provide instructors with a variety of activities and to provide authors with informal feedback on these activities.

Activities that have moved to Stage 2 are available to registered POGIL users so that the *In Development* activities may be reviewed and tested. Users who download an activity will be prompted to provide feedback to the author in exchange for permission to use the activity. The author should revise the activities using the feedback. The curator, in collaboration with the POGIL office, may assist with obtaining feedback.

Under Review (Stage 3)

Goal: To provide the author with formal POGIL review.

After an activity has moved through to Stage 2, the activity's author(s) may submit the activity to the curator along with evidence that others have evaluated and provided feedback on the activity. The author(s) should indicate in what, if any, contexts the activity has been used. An activity becomes an *Under Review* activity when an author submits the standard POGIL activity submission forms. A curator then works with The POGIL Project and the POGIL Steering Committee Feedback Coordinator to recruit reviewers. *Under Review* activities remain available to registered users during the revision process, and the author can iteratively improve the activity until it meets the POGIL criteria according to the activity rubrics.

Authors may submit activities to the database at Stage 3 without first going through Stages 0-2 by submitting the completed activity with the standard POGIL review request forms and agreeing to the Policy Statement of the POGIL Activity Database.

A PAC curator, the POGIL Steering Committee Feedback Coordinator, and The POGIL Project will determine if an activity may move to Stage 4 based on review feedback of materials in Stage 3.

Approved (Stage 4)

Goal: To share reviewed activities with the larger POGIL community.

Activities that satisfactorily complete the review process move to the *Approved* stage. *Approved* activities are assigned Digital Object Identifiers (DOIs) by the POGIL office staff to make them permanently citable products. Approved activities will receive a Creative Commons copyright. These will be available in a searchable database linked to pogil.org. Users who download an activity will be prompted to provide feedback to the author about how an activity worked in their classroom. Changes to an activity after a DOI has been issued must be approved by a curator in collaboration with The POGIL Project and the POGIL Steering Committee Feedback Coordinator.

Approved activities must be implemented successfully in multiple classrooms in order to move to Stage 5.

Validated (Stage 5)

Goal: To provide evidence that an approved activity is of high quality because it has been further used by other users.

A curator, in collaboration with The POGIL Project and the POGIL Steering Committee Feedback Coordinator, may mark an activity as *Validated* after an activity has been tested as written in at least two classrooms other than the author's and after the author responds to adopter feedback. The response may include revision to the activity or to the faculty handbook. POGIL practitioners can

reasonably expect that *Validated* activities have been shown to achieve the stated learning objectives in multiple classrooms.

Endorsed Collection

Goal: To provide the POGIL community a body of POGIL activities that function as a cohesive whole to teach a subject area.

Groups of Approved activities can be brought together to form *Endorsed collections*. These collections will form a larger body of work that is logically connected to treat a content goal on the order of a semester course. Endorsed collections may be published through The POGIL Project publishing agreement.

FAQ

What are the differences between reviewed, approved, validated, and endorsed?

- A Reviewed activity has been examined by a one or more trained POGIL practitioners and the author has received feedback on the characteristics of the activity.
- An Approved activity has received feedback from several trained POGIL practitioners and has been deemed to meet the criteria set forth in the appropriate rubrics for that activity.
- A Validated activity is an activity that has been approved and has been used at multiple institutional settings by multiple instructors who are trained in POGIL. The author will have developed implementation guidelines for the activity to assist instructors in understanding how to best utilize the activity in their curriculum. The author will likely have received quite a bit of feedback from various users on how implementation worked in their education setting.
- Endorsement by The POGIL Project is given to a set of activities that The Project intends to publish through The POGIL Press. The process of Endorsement should be a straightforward review of all the set of activities in their final form and the trail of revisions performed by the author based on feedback from external users.

What is in it for the author?

- Post ideas for activities and connect with like-minded POGIL practitioners
- Collect feedback from peers as an *Under Review* activity.
- Finding a collaborator can make it easier to write new activities (*Activity ideas*)
- *Approved* activities have a DOI and can be cited as a peer-reviewed product and listed in, e.g., an NSF report
- Advertising of the activities to promote their wider adoption (*Approved* and *Validated*)

What is in it for the POGIL project?

- Lower perceived barriers to entry will encourage more content generation

- *Approved* and *Validated* content will be more easily assembled into *Endorsed collections* and then may be formally published.
- The Project can more easily assess the areas of need in the community through the *Activity ideas* posts
- DOIs provide a robust way of providing materials to new audiences, which may encourage broader adoption
- More easily identify potential POGIL activity reviewers

How much paperwork do Authors have to do?

- Stages 0-2 require no paperwork.
- Submissions to Stage 3 & 4 will require descriptive identification forms to help reviewers understand the context of the submission.
- All users working and developing materials in the PAC must agree to the Policy Statement (currently under development). The policy statement covers guidelines about intellectual property and ethical use of materials in the PAC.