

## **CRITERIA FOR POGIL PROJECT ENDORSEMENT OF A COLLECTION OF POGIL ACTIVITIES**

### **REQUIREMENTS FOR SUBMISSION**

**Author qualifications:** Authors are strongly encouraged to have some prior formal training within the POGIL Project.

**Prior Classroom Testing and Feedback:** More than 75% of the activities in the collection must have been used by at least two instructors other than the primary author(s) in classrooms with students. The testing instructors are required to have had training in POGIL classroom facilitation, and they must provide substantive feedback to the author. This feedback, which may be in the form of specific comments about individual activities, or more general commentary on the collection as a whole, must be included with the submission of the collection for endorsement, and is typically solicited by the author(s). If necessary, the POGIL Office may assist in identifying suitable potential classroom testers, although arranging for the testing and feedback is the responsibility of the author(s). Collections of activities written collaboratively by a group of experienced POGIL practitioners may be exempted from this requirement.

#### **POGIL Activities:**

It is permissible for there to be a limited number of activities in a collection that are not intended to be POGIL activities. If this is the case, the author(s) must indicate which activities in the collection are designated as POGIL activities and which are not.

#### **Categorization of Collections:**

There will be three categories of collections:

- Learning Cycle Collection (at least 67% Learning Cycle activities)
- Application Collection (at least 67% Application activities)
- Mixed Collection (not one of the other two)

The author(s) must indicate the activity type (Learning Cycle or Application) for each POGIL activity in the collection and also the overall categorization of the collection.

#### **Activity Submission Forms:**

An Activity Submission Form must be included for each POGIL activity in the collection.

### **REVIEW PROCESS AND ENDORSEMENT CRITERIA:**

#### **Review of Collections:**

From the activities in the collection designated by the author(s) as POGIL activities, a random sample of at least 25% of the will be examined, with a minimum of 12 author-designated POGIL activities. The number of activities of each type (Learning Cycle or Application) that are reviewed will be roughly proportional to the relative number of activities of that type in the collection.

At least 75% of the activities (with a minimum of 12) must be considered POGIL activities by the reviewers in order for the collection to be endorsed as a POGIL collection.

In the process of reviewing a collection of activities, if it becomes clear that the minimum requirements cannot be met, the reviewers may choose to stop reviewing further activities and provide feedback to the author(s).

**Reviewers:**

Collections will be reviewed by at least two expert reviewers. The reviewers will consider both the quality of the activities and also whether the activities qualify as POGIL activities.

**Quality of Activities:**

- No more than one-tenth of the POGIL activities in the collection may be “unacceptable quality”.
- At least two-thirds of the POGIL activities in the collection must be “high quality”.

**What constitutes a “collection” of POGIL activities?**

A collection contains at least 12 POGIL activities that are typically in one content area at one targeted instructional level. The 12 activities should roughly span the range of course content in a typical course. If the collection is intended to span the course content in a two-semester sequence, then at least 20 activities would be expected. For example, a collection could be 20 activities addressing many of the important concepts of both General Chemistry I and II, but not 12 activities focused solely on spectroscopy for organic chemistry.

For a collection to be endorsed, at least 75% (and preferably *all*) of the POGIL activities must meet all three criteria as described in *Characteristics and Types of POGIL Activities*:

- A POGIL activity is designed for use with self-managed teams that employ the instructor as a facilitator of learning rather than as a source of information.
- A POGIL activity guides students through an exploration to construct, deepen, refine and/or integrate understanding of relevant disciplinary content.
- The application and development of at least one of the targeted process skills is embedded in the structure and/or content of a POGIL activity, and is not solely dependent upon the facilitation of the activity in the classroom or laboratory.

This final requirement is not intended to be a barrier to authors, but rather to encourage authors to think consciously about goals for process skills. For example, all Learning Cycle Activities likely ought to develop critical thinking skills, while all Application Activities likely ought to develop problem solving skills.

In all cases, there must be at least 12 activities in the collection that meet all three criteria. Thus, a set of 13 activities with only 11 activities that meet all three criteria would NOT be allowed, but a set of 16 activities of which 12 meet all three POGIL criteria would be acceptable.

**What constitutes a “high quality” activity and an “unacceptable quality” activity?**

Rubrics that have been developed by The POGIL Project for Learning Cycle Activities and Application Activities will be applied to the selected activities by at least two expert reviewers. The review process will result in an activity being rated as “high quality”, “acceptable quality” or “unacceptable quality.” This rating will be a reflection of the perceived effectiveness of the activity in achieving the stated content learning goals and developing the stated process skills, and also the extent to which the activity type (Learning Cycle or Application) is appropriate for achieving those outcomes.

## **CONSEQUENCES/RESPONSIBILITIES OF ENDORSEMENT**

### **POGIL Project Responsibilities**

- Endorsed collections will be listed on The POGIL Project website along with the descriptive material provided by the authors
- Information for obtaining activities will be posted on the website
- At least one high quality sample activity will be posted on the website and available for public examination
- Permission granted to include POGIL logo and indication of endorsement within publication

## **RESPONSIBILITIES/REQUIREMENTS OF AUTHORS**

- Contribution of at least 10% of total royalties to The POGIL Project
- Provide brief description for posting on website including:
  - Identification of type of collection
  - Intended course and level for use
- At least one high quality sample activity will be provided for public examination on the POGIL website
- Acknowledgement of The POGIL Project within collection, including website address