

# Pennsylvania: Past, Present and Future

## ArcGIS Online Middle School and High School Competition-2020

### Overview and Guidelines:

The PA Alliance for Geographic Education along with PaMAGIC, PASDA (Pennsylvania Spatial Data Access), and ESRI are happy to announce the 2020 ArcGIS Online (AGO) map competition for middle school and high school students across the Commonwealth. This competition allows students to demonstrate problem solving, map analysis, and storytelling with maps. All Pennsylvania public, private, or homeschooled students are eligible to enter the contest. Maps can be submitted individually or as a team of two students. There is a limit of one entry per student (as an individual or as part of a team) and a limit of 10 entries per school. For this year's competition, students should develop an AGO: Story Map; Presentation; or Web App which addresses this year's theme: "Pennsylvania: Past, Present, and Future."

Here are just a few ideas to get you thinking about what kind of map you may want to design:

- Create a map to tell the story of how and where the best locations in Pennsylvania are for renewal energy (solar, etc.)
- Create a map to tell the story of how and why a Fortune 500 company would locate in a Pennsylvania city
- Create a map to tell the story of changing PA's Congressional Districts, issues of gerrymandering, and possible solutions
- Create a map that tells the story of how PA agriculture has changed physical and/or cultural landscapes over time



### ArcGIS Online Requirement and Support:

The only requirement is that students must use ArcGIS Online to create an original story map, map app, or map presentation. ArcGIS Online is available to any K-12 school in the United States free of charge from ESRI. Go to <https://www.esri.com/en-us/industries/education/schools/schools-mapping-software-bundle> to sign up for a free ArcGIS Online school organization account. Final maps must be created using the school organization account. Students may not use a public account.

All of the collaborating groups sponsoring this competition will be available to provide support to both teachers and students. GIS professionals across the state will be volunteering time to mentor teachers. Potentially, those with appropriate clearances may be available to work with teachers and students in schools. Additionally, we have made available resources online to support you and your students. See [here](#) for a story map entitled "A Teacher's Guide to ArcGIS Online" which provides directions on how to set up an organizational account, how to create different types of story maps, and how to incorporate data into your story maps: <https://arcgis.is/1av0iG> Teachers who contact Tom Mueller ([mueller@calu.edu](mailto:mueller@calu.edu)) or Nicole Ernst ([nlemst@hacc.edu](mailto:nlemst@hacc.edu)) can request handouts on "how to" use ESRI story maps.

### Judging Criteria:

Student maps will be evaluated by a team of GIS experts from across the state. The maps will be judged using a common rubric with a focus on the topic, map presentation, cartographic design, data, geographic analysis, and documentation. When teachers register participation, they will receive a copy of the story map evaluation rubric.

### Teacher Information and Registration

For more information and to register your participation go to <https://pageoalliance.org/get-involved/student-competitions/> by **April 6, 2020**

### Prizes and Requirements of Winners:

All students who submit maps and their teachers will receive a participation prize from the PA Alliance for Geographic Education. The five maps judged the best in each division (middle school: division 6-8 and high school division: 9-12), also known as the "State Awardees" will be awarded \$100 gift certificates to Amazon.com. "PA National Finalist" maps—one from each division from PA will receive a grand prize and will be submitted to the National AGO Mapping Competition. The one US winning student/team from each division and their teacher will receive an all-expense paid trip to the ESRI Education User's Conference in San Diego, CA: July 2020 where the student(s) and teacher(s) will be honored and their maps will be on display. The 10 State Awardees must make sure that their winning maps remain visible to the public until April 20, 2021.

### Deadlines:

- ◆ The competition will be announced across Pennsylvania on January 31<sup>st</sup>, 2020
- ◆ Participating teachers need to register by April 6, 2020
- ◆ The deadline for submitting student maps for the competition is April 12, 2020 11:59 p.m.
- ◆ State Awardees will be announced Sunday April 26<sup>th</sup> 2020 and those students and teachers will be invited to attend the PA GIS Conference May 13<sup>th</sup> 2020 in State College. (All state awardees will be show-cased at the conference regardless if they attend.)
- ◆ The PA National Finalists (1 MS and 1 HS) will be selected and announced at the PA GIS Conference on May 13<sup>th</sup>, 2020

*For more information or questions, contact PA AGO Student Competition Coordinators - Tom Mueller ([mueller@calu.edu](mailto:mueller@calu.edu)) or Nicole Ernst ([nlernst@hacc.edu](mailto:nlernst@hacc.edu))*