

## SlideRoom Application Questions for STEM and STEAM Designation

This document provides the questions included in the SlideRoom application for schools seeking STEM or STEAM designation. For detailed instructions on how to submit materials in SlideRoom, please refer to the *Information for Application Submission in SlideRoom* document available on the OSLN STEM and STEAM designation webpage.

### Application | General Information

The following are the questions and prompts included in the General Information application.

#### School Information

- Last name of the person completing the application
- First name of the person completing the application
- Role of the person completing the application
- Email of the person completing the application
- School name
- School IRN
  - You can find your school's IRN number at <https://oeds.ode.state.oh.us/SearchOrg>
- School address
- School website (if any)
- Is your school classified as rural, small town, suburban, or urban?
  - If you are unsure, this information can be found at <http://education.ohio.gov/Topics/Data/Frequently-Requested-Data/Typology-of-Ohio-School-Districts#>
- School enrollment
- Last name of the principal/school leader
- First name of the principal/school leader
- Email address of the principal/school leader
- Phone number of the principal/school leader
- What is your school's current designation?
- What are the current STEM/STEAM designated grade levels? Please select all that apply.
- Are you seeking to include additional grade levels in the designation?
- Are you seeking to modify your designation?
- Describe how the school's assets will be distributed if the school closes for any reason.

## District Information

- District name
- District IRN
- Last name of the treasurer/fiscal officer
- First name of the treasurer/fiscal officer
- Email address of the treasurer/fiscal officer
- Phone number of the treasurer/fiscal officer
- Last name of the superintendent/chief academic officer
- First name of the superintendent/chief academic officer
- Email address of the superintendent/chief academic officer
- Phone number of the superintendent/chief academic officer
- Applications for designation may be submitted only by currently designated schools that have an established higher education partner. Please list your school's formal higher education partner(s).
- Applications for designation may be submitted only by currently designated schools that have an established STEM or STEAM business organization partner. Please list your school's formal business organization partner(s).
- Are you applying for STEAM designation?
- Upload the completed Assurances Page (copy of this document is available in SlideRoom or contact OSLN to receive a copy)

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## Application | Domain I: Culture for Learning

The following are the questions and prompts included in Domain I: Culture for Learning application.

### Attribute 1.1 Cultural Strategies

- Please select the appropriate designation type for your school:
  - Currently designated STEM school
  - Currently designated STEAM school
  - Currently designated STEM school equivalent
  - Currently designated STEAM school equivalent
  - Initial designation for STEM school
  - Initial designation for STEAM school
  - Initial designation for STEM school equivalent
  - Initial designation for STEAM school equivalent

- Upload an artifact depicting the school’s community values, for example, something that reflects what is expected in a successful adult. These may be referred to as the school's Habits of Mind or School Pillars.
  - Explain how your school’s community values reflect the STEM cultural strategies including innovation, an entrepreneurial spirit, inquiry, and collaboration with individual accountability.

**2 required and 2 optional artifacts:**

- Upload an artifact that demonstrates how your school models Cultural Strategies.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.

**Attribute 1.2 Inclusive Mission**

- (Required for STEM and STEAM Schools) Upload an artifact depicting how demographics of the school compare to the demographics of its district or community. Demographics should at a minimum include race, sex, socioeconomic status and special education data. (Make sure that you are not including student information such as names and student numbers, which would result in a FERPA violation. Please redact any identifying student information before submitting your application in SlideRoom.)
  - Explain the similarities and/or differences between your school's demographics and the demographics of your district or community.
- (Required for schools serving grades 9-12) Upload an artifact depicting the data, including the percentage of students broken down by demographics, participating in apprenticeships, internships, credentialing, college credit hours, etc., for the last completed school year. (Make sure that you are not including student information such as names and student numbers, which would result in a FERPA violation. Please redact any identifying student information before submitting your application in SlideRoom.)
  - (Optional) Additional information regarding this artifact.
- (Required for schools serving grades K-8) Upload an artifact depicting the data, including the percentage of students broken down by demographics, participating in school programs. (Make sure that you are not including student information such as names and student numbers, which would result in a FERPA violation. Please redact any identifying student information before submitting your application in SlideRoom.)
  - (Optional) Additional information regarding this artifact.

**2 required and 1 optional artifact:**

- Upload an artifact that demonstrates how your school models Inclusive Mission.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.

**Attribute 1.3 School Leadership**

- Upload an artifact depicting opportunities for staff collaboration during a school day or week, such as a daily or weekly school schedule with clearly delineated common planning time among specific teachers.
  - Describe how the school’s schedule allows for interdisciplinary teacher collaboration.

- Upload an artifact depicting this year's professional development schedule that allows for interdisciplinary teacher collaboration.
  - Describe how this professional development schedule allows for interdisciplinary teacher collaboration.
- What expectations do school leaders set for implementing STEM education, and how are these expectations communicated to teachers?

**1 required and 1 optional artifact:**

- Upload an artifact that demonstrates how your school models School Leadership.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.

**Attribute 1.4 Governing Body, STEM or STEAM Advisory Group, and Curriculum Team**

- Upload an artifact listing the members of your STEM/STEAM Advisory Group and their affiliations.
  - Describe how the members of the school's STEM/STEAM advisory group are selected. (no longer than approximately 250 words)
  - Upload the agendas and minutes for all STEM/STEAM advisory group meetings that have occurred within the past 18 months.
- Does your school have a Curriculum Team different from the governing body and STEM/STEAM advisory group?
  - Yes
  - No

If answer is Yes

- Upload an artifact listing the members of your Curriculum Team and their affiliations.
  - Describe how the members of the school's Curriculum Team are selected. (no longer than 250 words)
  - Upload the agendas and minutes for all Curriculum Team meetings that have occurred within the past 18 months.
- List the name, affiliation and contact information of the representative(s) of your Higher Education partner who serves on your STEM Advisory Board/Curriculum Team.
- List the name, affiliation and contact information of a member of the public with expertise in the STEM disciplines who serves on your STEM Advisory Board/Curriculum Team.
- List the name and contact information of a teacher from your school who serves on your STEM Advisory Board/Curriculum Team.
- (Required for STEAM schools only) List the name, affiliation and contact information of an expert in the integration of arts and design into the STEM fields who serves on your STEM Advisory Board/Curriculum Team.
- Make sure that you do not include student information such as names and student numbers, which would result in a FERPA violation. Please redact any identifying student information before submitting your application in SlideRoom.

## Application | Domain II: Teaching and Learning

The following are the questions and prompts included in Domain II: Teaching and Learning application.

### Attribute 2.1 Integration of Academic Disciplines

- Please select the appropriate designation type for your school:
  - Currently designated STEM school
  - Currently designated STEAM school
  - Currently designated STEM school equivalent
  - Currently designated STEAM school equivalent
  - Initial designation for STEM school
  - Initial designation for STEAM school
  - Initial designation for STEM school equivalent
  - Initial designation for STEAM school equivalent

#### ***2 required and 2 optional artifacts:***

- Upload a lesson plan or a collection of lesson plans for learning experience(s) in which a core discipline is intentionally integrated with at least one other discipline. The uploaded lesson plan(s) must include the courses or subjects integrated in the lesson, the standards for each discipline represented, and the grade level(s).
  - Include only lessons that have been implemented within the past 12 months.
  - Briefly explain how different disciplines are represented in the learning experience. (no longer than 250 words)

#### ***2 optional artifacts:***

- (Optional) Upload an artifact that demonstrates how your school models Integration of Academic Disciplines.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.

### Attribute 2.2 Teaching and Learning Approaches

- Upload a visual representation of the design thinking process used in your school (design cycle).
  - Explain when and how this process was adopted by the school.
- Upload example(s) of grade-level or schoolwide PBLs that show students engaging in research, problem-solving, project documentation, and presenting their learning to an authentic audience.
  - Additional information regarding this artifact.

#### ***1 required and 2 optional artifacts:***

- Upload another artifact that demonstrates how your school models Teaching and Learning Approaches.

- Provide a description of how this piece of evidence demonstrates this specific attribute.

### Attribute 2.3 Computer Science, Computational Thinking, and Modern Technology

- What computer science learning opportunities are available to students at your school? Please clearly indicate which offerings are required for all students and which are optional. (approximately 250 words)

#### ***1 required and 2 optional artifacts:***

- Upload an artifact that demonstrates how your school models Computer Science, Computational Thinking and Modern Technology.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.

### Attribute 2.4 Personalized Learning

- Upload an artifact that demonstrates opportunities for students to set learning goals, monitor progress, and make decisions about what, how, and why they learn.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.
- Upload an artifact that demonstrates opportunities for students to meet individual learning needs by choosing from available flexible in-person, hybrid, and virtual environments.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.
- Upload an artifact that demonstrates opportunities for students to engage in mastery learning or competency-based learning.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.
- Upload an artifact that depicts the assessment techniques used in the school.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.
- (Optional) Upload an artifact that demonstrates how your school models Personalized Learning.
  - Additional information regarding this artifact.

### Attribute 2.5 STEM/STEAM Professional Learning

- Upload an artifact that demonstrates opportunities for the teaching staff to engage in professional development aligned with Ohio's Quality Model for STEM and STEAM Education over the past 3-4 years.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.
- Upload an artifact that demonstrates school staff sharing STEM/STEAM instructional strategies beyond the school.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.

#### ***1 required and 2 optional artifacts:***

- Upload an artifact that demonstrates how your school models STEM/STEAM Professional Learning.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.

- Make sure that you do not include student information such as names and student numbers, which would result in a FERPA violation. Please redact any identifying student information before submitting your application in SlideRoom.
  - I have reviewed the uploaded artifacts and to the best of my ability I confirm that no identifiable student information is included.

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## Application | Domain III: Pathways to Success in Careers

The following are the questions and prompts included in Domain III: Pathways to Success in Careers.

### Attribute 3.1 Career Access and Exploration

- Please select the appropriate designation type for your school:
  - Currently designated STEM school
  - Currently designated STEAM school
  - Currently designated STEM school equivalent
  - Currently designated STEAM school equivalent
  - Initial designation for STEM school
  - Initial designation for STEAM school
  - Initial designation for STEM school equivalent
  - Initial designation for STEAM school equivalent
- Upload an artifact that demonstrates opportunities for students to explicitly connect classroom learning to professional STEM/STEAM careers.
  - Describe how this piece of evidence demonstrates this element of Career Access and Exploration.
- Upload another artifact that demonstrates opportunities for students to experience STEM/STEAM business and industry awareness and exploration.
  - Describe how this piece of evidence demonstrates this element of Career Access and Exploration.
- (Required for High Schools) Upload an artifact depicting the data, including the percentage of students broken down by demographics, participating in workforce readiness opportunities for the last completed school year. (Make sure that you are not including student information such as names and student numbers, which would result in a FERPA violation. Please redact any identifying student information before submitting your application in SlideRoom.)
  - Describe your school's expectations for students to participate in workforce readiness opportunities.

### 2 optional artifacts:

- (Optional) Upload an artifact that demonstrates how your school models Career Access and Exploration.
- Describe how this piece of evidence demonstrates this specific attribute.

### Attribute 3.2 Partnerships Extend Learning Opportunities

- Upload an artifact listing the school’s established partners. Include a brief description of their collaboration commitment/role.
- Upload a letter from the school’s established Higher Education partner. The letter needs to describe the nature of the partnership between the organization and the school. The letter must be dated within the last 12 months, written on the official organizational letterhead, and signed by the representative of the organization.
- Upload a letter from the school’s established Business and Industry partner. The letter needs to describe the nature of the partnership between the organization and the school. The letter must be dated within the last 12 months, written on the official organizational letterhead, and signed by the representative of the organization.
- (Required for STEAM schools) Upload a letter from the school’s established Arts and Humanities partner. The letter needs to describe the nature of the partnership between the organization and the school. The letter must be dated within the last 12 months, written on the official organizational letterhead, and signed by the representative of the organization.
- Upload an artifact depicting how partners support instruction by providing ideas for design challenges, project-based learning, or problem-based learning.
  - Additional information regarding this artifact.
- (For high schools only) Upload an artifact that depicts how partners provide workforce readiness opportunities for students.
  - Additional information regarding this artifact.
- (Optional) Additional partnership letter.
- (Optional) Upload an artifact that demonstrates how your school models Partnerships Extend Learning Opportunities.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.

### Attribute 3.3 Relevant Community Learning Experiences

#### ***2 required and 2 optional artifacts:***

- Upload an artifact that demonstrates how your school models Relevant Community Learning Experiences.
  - Provide a description of how this piece of evidence demonstrates this specific attribute.