FLOOD:ED CHALLENGE

Take Action to Protect Against Extreme Weather!

2025/2026

The Flood:ED Challenge is a great way for learners to understand the importance of taking action against flooding by creating a STEAM model to develop flooding solutions, a flood resilience plan for their school, and/or take action to combat flooding in their communities. The challenge will be scored out of 62 points based on the identified criteria found in the assessment rubric on the last page

Challenge Instructions

Step 1: Register for the Challenge

If you are reading through this challenge package and have yet to register your class or club for this challenge, click the button below to register. Once you've registered, please continue to Step 2!

REGISTER HERE

Step 2: Tips to Get Started (optional)

To help familiarize yourself with renewable energy technology concepts, use the following resources:

- Educator Video
- School Greening Simulator

We **recommend** having your class/club complete a selection of learning activities from the Flood:ED Program to equip your learners with the necessary knowledge and skills for the challenge and to watch GreenLearning's Flood:ED Webinar - Excess Water: Flooding in Your Community with your class.

Excess Water: Flooding in Your Community Webinar Recording

Flood:ED Program Link

Step 3: What's Your Plan of Action?

Now it's time for your students to select their plan of action!

Option 1: Model Flooding Solutions
Ready to create your own STEAM model? Outline your plan and create a STEAM-based project to model and test how flooding can affect an area, and what impact possible solutions may have. Use the Model Flooding Solutions Worksheet to outline your plan.

Model Flooding Solutions Worksheet

Tip: Use the **School Greening Simulator** mentioned in Step 2 for inspiration!

Optional Learner Worksheet: this worksheet will further help you outline your plan to build your STEAM model.

Tip: See the **Plan of Action** section of the Assessment Rubric on the final page of this package

Option 2: Flood Resilience Plan
Interested in making your school yard flood resilient? Outline strategies and actions that can be taken to better prepare for floods by developing a Flood Resilience Plan for your school.

Flood Resilience Plan Worksheet

Tip: See the **Plan of Action** section of the Assessment Rubric on the final page of this package

Option 3: Flood Action Plan
Are you ready to take action to combat flooding at your school? Come up with innovative ideas, document the actions you took and describe the impact of your actions using the Act to Combat Flooding Worksheet below.

Flood Action Plan Worksheet

Tip: See the **Plan of Action** section of the Assessment Rubric on the final page of this package

For further inspiration, check out past Flood:ED projects!

Flood:ED Challenge Showcase

Step 4: Project Summary, Learnings & Reflection Questions

Next, have your learners provide an overview of their project, share their project and reflect what they have learned with the school, their community, on social media or any other platforms. This is a great chance to share photos and videos.

Tip 1: See the **Supporting Materials** section of the Assessment Rubric on the final page of this package

When submitting photos and videos of the project, where student faces are shown, please see **Reminder** below about media release forms.

Project Summary, Learning & Reflection Worksheet

Tip 2: Review the **Project Summary, Learnings and Reflection** section of the Assessment Rubric on the final page of this package

Reminder

As part of Step 4 for the Sharing Your Learnings section, photos and videos are encouraged and play a large role in scoring. When submitting photos and videos of the project where student faces are apparent, please ensure a **media release form** has been signed. If no photos or videos contain student faces, please skip to the next section of this challenge package.

If students' parents(s) and/or guardian(s) have already signed-off on media releases for their child at the beginning of the school year specifically for the school, please note there is an option for the teacher themselves to sign-off all their students participating in the challenges.

Teacher Sign-Off for Students with School Media Releases

Individual Student Media Release Form

Tell Us What You Think (optional)

Although this section is not scored, we encourage you to take a moment to provide feedback on your experience in leading your students on their challenge journey. This feedback helps us improve for the following year.

Educator Feedback Form

Step 5: Time to Submit!

Your learners have worked so hard to put together an amazing project submission - now it's time for you to submit their work! Make sure to submit by **11:59pm PST on May 13th, 2026!**

SUBMIT CHALLENGE HERE

Submission Checklist:

Use the Assessment Rubric below to support your Challenge process.

- [ ] Either Model Flooding Solutions Worksheet, Flood Resilience Plan Worksheet, and/or Flood Action Plan Worksheet (found under Step 3- dependent on which option is chose)
- [ ] Project Summary, Learning & Reflection Worksheet (found under Step 4)
- [ ] Photos & Videos of Models or Plan
- [ ] Media Release Form (s) (found under Reminder)
    - [ ] Parent and/or Guardian Signature

      OR
    - [ ] Teacher Sign-off
- [ ] Educator Feedback Form (reminder this piece is not scored - found under Tell Us What You Think)

Assessment Rubric

Criteria	Level 4	Level 3	Level 2	Level 1
Plan of Action				
Learner Plans & Actions Creativity and problem solving. **(20 points)**	A strong STEAM model design. Flood Resilience Plan and/or Actions to Combat Flooding are highly logical and creative in tackling flooding. **(16-20 points)**	A good STEAM model design. Flood Resilience Plan and/or Actions to Combat Flooding are logical and creative in tackling flooding. **(10-15 points)**	A simple STEAM model design. Flood Resilience Plan and/or Actions to Combat Flooding are somewhat logical and creative in tackling flooding. **(5-9 points)**	An unclear STEAM model design. Flood Resilience Plan and/or Actions to Combat Flooding are limited in their logic or creativity in tackling flooding. **(0-4 points)**
Supporting Materials				
Supporting Materials Evidence of learning, photos, videos, slide deck, other supporting materials. **(15 points)**	5+ supporting materials were submitted demonstrating the learner experience. **(12-15 points)**	3-4 supporting materials were submitted demonstrating the learner experience. **(8-11 points)**	1-2 supporting materials were submitted demonstrating the learner experience. **(4-7 points)**	No supporting materials were submitted demonstrating the learner experience. **(0-3 points)**
Project Summary, Learning & Reflection				
Summary of Project Overview of project, reason for selecting option, how well it reduces flooding, design and creative thought process, etc. **(7 points)**	A strong summary of the project. Highly detailed points on functionality, design, creativity of model (s) and estimate of litres of water absorbed. **(6-7 points)**	A good summary of the project. Some detailed points on functionality, design, creativity of model (s) and estimate of litres of water absorbed. **(4-5 points)**	Some form of a summary of the project. Few detailed points on functionality, design, creativity of model (s) and estimate of litres of water absorbed. **(2-3 points)**	Lacking a summary of the project. Very minimal detailed points points on functionality, design, creativity of model (s) and estimate of litres of water absorbed. **(0- 1 point)**
Sharing Your Learning Communication & Collaboration **(10 points)**	Learning was shared with clear educational intention and through multiple forms. **(8-10 points)**	Learning was shared with some educational intention and/or through multiple forms. **(6-7 points)**	Some learning was shared **(3-5 points)**	No learning was shared throughout this challenge **(0-2 points)**
Reflection Questions Creativity, critical thinking & knowledge mobilization **(10 points)**	Response is highly logical and creative in explaining and expanding on flood impacts and resilience learnings. **(8-10 points)**	Response is logical and creative in explaining and expanding on flood impacts and resilience learnings. **(6-7 points)**	Response is somewhat logical and creative in explaining and expanding on flood impacts and resilience learnings. **(3-5 points)**	Response is difficult to follow and limited in explaining and expanding on flood impacts and resilience learnings. **(0-2 points)**
Total Points: /62				