



Northshore School District ELEMENTARY SCIENCE OLYMPIAD INFORMATION SESSION

Sign-In Form →



Contact Us with Questions:
wastate.eso@gmail.com



Introduction

- Diya Gupta- Junior @ NCHS
- Started this program two years ago at Fernwood Elementary
- Last year, we grew the program to be district-wide
 - No tournament
- This year: district wide, exciting virtual tournament



Partnerships





What is Science Olympiad?

Science Olympiad is international level competition that tests students knowledge and understanding of biology, chemistry, physics, and engineering.

- Gets more competitive in middle and high school



Why is Elementary Science Olympiad beneficial?

- Exposure to STEM fields like engineering through hands on projects!
- Science Olympiad competitions get competitive in middle and high school.
 - According to WA state statistics, once elementary students are engaged in and enjoy science, interest in middle or high school is a logical progression.
- SO is something you can take on and excel at that level.
 - Middle and high school both compete at regionals, state, national, and international competitions



Eligibility Requirements

1. Elementary student within Northshore School District (NSD)
2. Currently in grades 4-5



What are we going to do in Elementary Science Olympiad this year?

- Individual students (no teams this year) will prepare and compete in ESO events
- Event Types:
 - Build:
 - Long
 - Short
 - Objective test
 - Non graded (fun)
- Completely virtual format this year
- Compete against other elementary students for the events. How? →
 - Live competition on Zoom
 - Prerecorded submissions



ESO Events 2020-2021

1. **Short Build**

Save the Ice: Students will construct a container, mostly from readily available materials, that prevent an ice cube from melting.

2. **Long Build**

Mission Possible: Participants will design, build, and test a Rube-Goldberg like device, which incorporates 5 specific action transfers.

3. **Objective Test**

Elements, Compounds, and Mixtures: Students will be assessed on their ability to classify daily materials into one of these three categories as well as demonstrate knowledge of basic concepts in chemistry.



ESO Events (non graded)

4. Non graded (fun)

Picture This: Students will take turns drawing a representation of a scientific term on concept while other students must guess the term.

- not part of score
- fun activity to learn basic science
- gets kids excited!



Clarification Point

All students competing in ESO will take part in all events for this year(3). Event guidelines and instructions will be the same for every student.

Do students have to compete in all 3 events? No, but hopefully they can!



Timeline

Event Preparation (November 18 - February)	Olympiad Tournament (Mid to end February)
<ul style="list-style-type: none">- Registration- Read and understand event guidelines- Use event resources- Workshops in Dec and Jan	<ul style="list-style-type: none">- TBD Time and Date - Mid to End February<ul style="list-style-type: none">- Flexible: Olympiad day + make up day on a need-basis● Events:<ul style="list-style-type: none">○ Save the Ice and Mission Possible have pre recorded submissions○ Mission Possible and Elements, Compounds, Mixtures needs to be live on Zoom○ Picture This will also be live on Zoom- Official Science Olympiad medals and plaques given to winners



Costs (for build events)

- Students have to fund their own project materials
- Most materials needed are readily available (in your house)
- You can use materials not found in your house: **Max** up to \$15

Materials costs however, should not be an obstacle for any student to participate in the program. If you would require financial assistance to cover these materials costs, please indicate so in the registration form.



Parent Involvement

- Point of contact for communication
- Mentors students
 - Understanding the event guidelines
 - Physically building the projects
- Great way to have some quality family time!



Summary of Changes due to COVID-19

1. There will be no teams. Students will be competing individually.
2. There will be a total of 3 events: 2 build projects and 1 objective test.
3. The competition will be held virtually in late winter, 2021 (Feb).
4. All projects will be submitted virtually.



RESOURCES



Event Guidelines

- Detailed event description
 - How and what to build
- Event rules
- Scoring standards
- Submission Instructions

COMING SOON!

Event Resources

- Topics to study/research
- Tips and Hints
- Study Material

COMING SOON!



Event Guidelines and Resources cont...

This is a very important document that students and parents should read, discuss, and understand together . You can plan, build, and prepare for these events in your own time.

By this weekend, this pdf/document will be posted on:

- NSD Website - www.nsd.org/eso
- Flipgrid



Flipgrid (Online tool)

- Online tool where I will post some helpful videos (made by me) about the events and students/parents can comment/chat/ask/discuss
 - Approved and provided by NSD
- Save the Ice and Mission Possible have video recorded submission components which will be submitted through this tool before the competition
- **Flipgrid access instructions** will be emailed to you after you register
 - Private group
 - Student NSD email ID



Workshops

- Workshops will serve as a way of getting feedback, asking “Am I going in the right direction”?
- Q and A
- Clarification: You do not build your projects during the workshops.

Summary of Resources

4th and 5th Graders: Learn About the Northshore Science Olympiad!

Published: Nov 17 2020

Fourth and fifth grade families are invited to attend an information session to learn about the Elementary Science Olympiad, which will provide students with an opportunity to individually compete in various science and engineering related events. This year's Elementary Science Olympiad will be virtual. This fun competition encourages students to apply classroom science learning to fun and exciting hands-on projects. Projects can be built entirely from commonly available household materials. All 4th and 5th grade Northshore School District students are invited to compete in this districtwide event.

Specifics about the projects, workshops and the competition will be shared during the information sessions, which are scheduled for Nov. 18 and Nov. 20. Please attend an information session if you are interested in participating. Students are encouraged to register for the event after attending one of the two information sessions although attendance at an information session is not required to participate.

Translation will be available through [Microsoft Translator](#). A conversation code will be announced at the beginning of each information session.

Information Session 1

Date: Wednesday, Nov. 18, 2020

Location: Virtual, [Join Here](#) or use Meeting ID: 820 3337 1448 and Passcode: 885561

Time: 6:30 - 7:30 p.m.

Information Session 2

Date: Friday, Nov. 20, 2020

Location: Virtual, [Join Here](#) or use Meeting ID: 820 3337 1448 and Passcode: 885561

Time: 6:30 - 7:30 p.m.

Learn more by [visiting the event's website](#). You can register for the event by completing [this form](#). If you have questions, email wastate.eso@gmail.com.

- www.nsd.org/eso
 - Registration Form Link (available)
 - Contact us (available)
 - Information Session Slide Deck (SOON)
 - Event Guidelines and Resources (SOON)
- Flipgrid access instructions email (SOON)



Important Q and A

Is this a half day timed event where the activity/project must be completed in the given time? Or, is this more of a build at your own time but with a show and tell or a joint demo session at the end?

More of a build at you own time. Video recording components and live testing components.

Will a supply list for materials be provided?

The challenge and purpose is to consider and evaluate which materials to use. Every student will probably be using a different set of materials.

What is the time commitment for both parents and students?

Up to the student and parent. Putting in 1-2 hours a week starting now will put students in a very good position to feel prepared to compete by Feb.

What will be the duration of the Olympiad/tournament?

For ECM, Mission Possible, Picture This: 2 - 3 hours (with breaks)

Do we have any backup day for tournament if there is any issue with virtual environment like internet issue?

Yes.



Important Q and A

Will there be an guidance provided to students for projects or it is all student and parent driven?

We will provide a direction (Guidelines, Resources, Workshops) but the actual building and brainstorming must be done by the student who may be mentored by the parent.

Do students have to record every step of their project?

No. Students only have to record their final project and some other specified components. The video will not be longer than 5-6 mins.

Is registration free?

Yes

Is the sign in form and registration form the same?

No. Sign in for attendance purposes, does not register your student.

Do we disqualify if the cost is above \$15?

We have no way of checking this. We rely on the honor system for this.

Clarification: \$15 is counted for items that you have to go out and buy (not already available)

Will the submissions be judged grade wise?

No.



Q and A

Is this a half day timed event where the activity/project must be completed in the given time? Or, is this more of a build at your own time but with a show and tell or a joint demo session at the end?

[More of a build at you own time. Video recording components and live testing components.](#)

Are there any science teachers involved?

[Not for this year. Hopefully in future years. Students can always discuss with their science teachers from school.](#)

Will a supply list for materials be provided?

[The challenge and purpose is to consider and evaluate which materials to use. Every student will probably be using a different set of materials.](#)

What is the time commitment for both parents and students?

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Q and A

Can students form virtual teams?

No teams this year. Individual entries ONLY.

Will we receive a curriculum/recommendations for how to best learn from this experience?

Yes → [Event Guidelines](#), [Resources](#), [Workshops](#)

Will there be an guidance provided to students for projects or it is all student and parent driven?

We will provide a direction ([Guidelines](#), [Resources](#), [Workshops](#)) but the actual building and brainstorming must be done by the student who may be mentored by the parent.



Q and A (from Info Session 1)

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Do we have any backup day for tournament if there is any issue with virtual environment like internet issue?

[Yes.](#)

Do students compete in all the events or a subset?

[All students compete in all events. All events have the same guidelines.](#)

Do you have an estimate on when the event guidelines will be posted on www.nsd.org/eso?

[By this weekend.](#)

Any details how grading will be done?

[All details on Event Guidelines PDF.](#)



Q and A (from Info Session 1)

Will we get to know the topics for the first project in the next session?

All topics were announced today. [Event Guidelines \(with detailed descriptions, etc\)](#) will be provided.

Will the submissions be judged grade wise?

No.

What is ECM test?

Elements, Compounds, Mixtures Objective Test. This is one of the 3 events for this year.

How to prepare for ECM test?

Specific topics + resources will be listed in [Event Guidelines & Resources PDF](#).



**Contact us with Questions:
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Registration

- Registration Deadline : Friday December 18th
 - Link: <https://forms.gle/HKNauYV9AbQV7gt7A>
- If you have already registered and would like to edit your response, you should be able to do so.

Please spread the word about the program and communicate the information you received today with contacts and in your school.

