JOIN THE SCIENCE OLYMPIAD AT BRICK!

WHAT: Hands-on, team-oriented science tournament made up of various science events. Small teams of students (1-3 students per grade/team) practice for their event in the spring and compete at the Washtenaw Elementary Science Olympiad (WESO) tournament on May 9, 2020 at Pioneer HS.

WHO: Open to Brick students in grades 2-5

COST: $20/team member (includes a t-shirt that will be worn at tournament), CASH only. Scholarships will be provided if you are unable to cover the registration cost. If needed please discuss with Head Coach.

WHEN: Registration is on a first-come, first-served basis for events. Deadline to register is January 24th.

HOW: Sign up by completing the registration form below and returning to your teacher with payment.

PARENTS: If your child is participating, please expect to volunteer in some capacity in order to make this program successful. We need volunteers in the following areas:

- **Parent coaches for each event team** - Commitment is approximately 60 minutes/week from February through May 9th. Training and materials are provided by WESO. Please note, without parent coaches we are unable to have events for our students to compete in.

- **Key volunteer** – Each school needs to have one key volunteer. This individual may need to be available before the tournament to attend WESO meeting(s). They will also need to volunteer the day of the event with commitment of approximately 4-8 hours.

- **Tournament day volunteers** – We will need 1 volunteer for every 3 students participating. Commitment is approximately 2-4 hours the day of the event.

- **Raffle basket** – Each school will need to submit a raffle basket ($50-100 value) to support WESO fundraising. We will need a coordinator to organize the basket and deliver to Pioneer on May 8th.

ALL Volunteers must have completed a background check and be cleared as a Brick volunteer.

QUESTIONS? Contact Brick Head Coach Marija Massey (brickscienceolympiad@gmail.com).

INFORMATIONAL MEETING: Science Olympiad informational meeting is scheduled for January 15th at 6:30 pm in the Brick elementary Media Center. If your child is signing up, please attend as we will address all expectations of the program.

2020 EVENT LISTINGS:

- **Aerodynamics (2nd and 3rd grades)**: Students will build and fly paper airplanes for distance, time and accuracy.

- **Barge Building (2nd grade)**: Students will construct a barge using the given material that can support a cargo of the largest number of weighted objects without getting them wet.

- **Circuit Wizardry (4th and 5th grades)**: Students will be tested on basic electrical circuit concepts, components, schematic reading and understanding, and ability to design and build a simple circuit from a functional description.

- **Estimania (2nd and 3rd grades)**: Teams will use estimation to find clues to solve a mystery.

- **Feathered Friends (4th and 5th grades)**: Students will be tested on their bird identification skills. Bird songs, field markings, natural habitat, adaptations and other characteristics will be included as part of this multimedia Olympiad event.
GENE-ius (4th and 5th grades): Teams will use their basic understanding of heredity, genes, DNA and chromosomes to complete genetic puzzles like pedigrees, simple crosses, and gene/codon reading.

Geology Rocks (2nd, 3rd and 4th grades): Students will be tested on their knowledge of basic geologic processes, minerals and rocks.

Gravity Racer (2nd and 3rd grade): Each team will build a vehicle and utilize gravity to reach a target.

Hang Time (3rd, 4th and 5th grade): Teams launch an indoor water rocket with the goal of floating a payload object safely back to the ground.

iCompute (all grades): Students will be tested on their knowledge of basic computing concepts, including hardware and software, their understanding of how computers solve problems, and their ability to create a simple program.

Map Reading (2nd and 3rd grade): Using various kinds of maps, students will test their map reading skills to answer geographic questions.

Mystery Architecture (all grades): Each team will be given a bag of materials (such as paper, tape, Styrofoam, and paper clips) to build a structure that can support a tennis ball. The tallest structure wins.

On Target (all grades): Each team will build missiles, utilizing a precision straw as the missile body (all materials being provided by WESO). The accuracy of the missiles launched indoors at a fixed target will be tested.

Pasta Bridges (2nd and 3rd grade): Students will build a bridge using the materials supplied (a variety of dried pasta and clay) and support a cup (in the middle of the bridge) with as many small weights as possible.

Photon Phun (all grades): Teams will use mirrors to aim a light beam at stationary targets in a darkened room. 4th and 5th grade teams will also answer written questions on the behavior and properties of light.

Potions (4th and 5th grades): Each team will follow instructions to make a potion, demonstrating basic lab skills (e.g. weighing, measuring, transferring, and filtering materials) and familiarity with safety rules.

Roots, Shoots, and Fruits (2nd and 3rd grade): Students will be tested on their knowledge of plants.

The Human Medicine (2nd and 3rd grade): Students will be learning about human body, learning basic anatomy and physiology. 2020 focus will be Musculoskeletal system.

The Plot Thickens! (4th and 5th grades): Students will be learning to interpret and create visualizations of data.

To Infinity and Beyond (all grades): Using a planetarium, charts, and a written test, students will demonstrate an understanding and basic knowledge of the solar system and its elements.

What Went By (2nd and 3rd grade): Students will utilize a story-based hike through local ecosystem to identify and describe the animals of Michigan (focus on mammals, reptiles and amphibians).

Write It, Build It (4th and 5th grades): Two team members will be shown a “picture” and will write a description of it. In a separate room, the other team members will be given the pieces of the “picture” and the written description and attempt to rebuild it. The team with the most pieces placed correctly wins.

Zip-A-Dee-Doo-Dah (4th and 5th grades): Given a few household materials, each team will construct a cable car capable of safely carrying a ping-pong ball down a zip line. The objective is to achieve a target run time which will be revealed on the day of the event.
Registration for Science Olympiad

Student Name: ____________________________ Grade: __________

Teacher: ____________________________ T-shirt size (YS, YM, YL, AS, AM, AL, AXL, AXXL, AXXL): __________

Event(s) registering for: ____________________________

In order to support Brick Science Olympiad Team I am able to volunteer in the following capacity:

____ I am able to help coach a team and would like to coach this specific event: ____________________________

*Coach training will be held at Pioneer H.S. on January 29, 2020 at 7pm.

____ I am able to be Brick Key Volunteer the day of the tournament (May 9, 2020).

____ I am able to be one of Tournament Day Volunteers (May 9, 2020).

____ I am able to coordinate Brick Raffle Basket to be submitted to WESO on May 8, 2020.

______________________________ has my permission to participate in the Science Olympiad program at Brick.

Parent/guardian name: ____________________________

Email address of parent/guardian: ____________________________ Phone number: __________

Signature of parent/guardian: ____________________________ Date: __________

For more info, see the WESO website at: wesoscience.org