

Before we begin:

- We want to know who is here! Please introduce yourself in the chat: Name. School.
- Please mute your microphone to reduce background noise.
- We will leave time for Q & A. **Please submit your questions via the Google form that will be shared in the chat.**
- This presentation, along with the questions and answers, will be posted on the WESO website.



Pentathlon

WESO 2022

Event Supervisors:

Tom Colis

Lenny Dale

Veronica Grondona

Goals for this event:

01

MATHSKILLS

Strengthen grade level appropriate math skills!

02

TEAMWORK

Encourage positive interactions and good sportsmanship!

03

FUN

Reintroduce a popular and fun event!

Event Format

- GRADES: 2, 3, 4, 5
- TEAM SIZE: 5 participants (per grade)
- DURATION: 15 minutes

The detailed event description can be found at: <https://wesoscience.org/events/>

EVENT FORMAT

Overview

- Relay race style event.
- Each team member will complete one physical activity followed by one math themed problem.
- After each teammate completes their physical activity and math problem, the next team member will start their leg.
- A running time will be kept starting with the first team member until the last team member is finished. Scores will be calculated based on a combination of this completion time and the accuracy of the math problems.

EVENT FORMAT

Physical Skills

- 5 different physical activities
- 1 will be stationary
- Simple skills like kicking a ball into a net or climbing thru a tunnel
- If multiple attempts are needed, they will only be allowed 3 attempts
- Activities may change between grade levels



EVENT FORMAT

Problem Solving Station

- 5 different math problems (1 per team member)
- Problem will be written on a piece of paper. Paper can be used for problem solving but answer must be recorded where it says "Answer".
- Must solve in 1 minute. Timer on desk.
- When finished, they must place sheet in box to signal they are done.





EVENT FORMAT

Timers/Referees

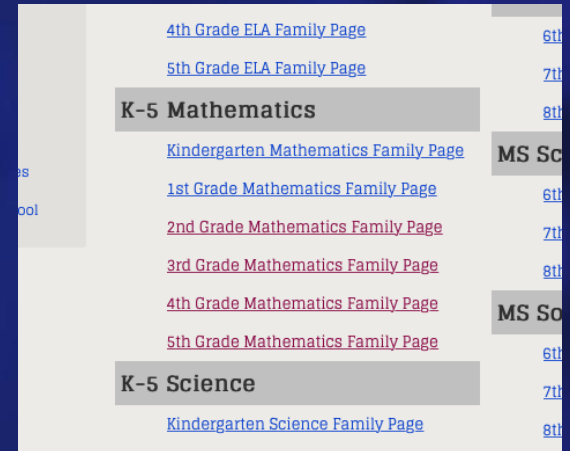
- Two time keepers per team will record the time for the entire heat. (Running clock)
- They will signal to student that they have either successfully completed the physical task or are out of attempts and can move on to the problem solving station.
- They will inform student if their 1 minute is up at the problem solving station.
- They will signal to the next teammate when it is their turn to start.

MATH CONCEPTS

Problems will be developed from the grade level expectations from the Ann Arbor Public Schools

Found Here

<https://www.a2schools.org/Page/6880>



MATH CONCEPTS

- **Second grade teams will not be given word problems. They are expected to be able to read simple instructional phrases (i.e. What time is it?)**
- **All problems will be reviewed by an AA elementary school teacher for grade level appropriateness and reasonable execution time.**

Example 2nd grade

From the the AAPS website:

Add and subtract within 20

Add within 20 fluently.
Subtract within 20 fluently
Know all sums of two 1-digit numbers automatically.

$$\begin{array}{r} 18 \\ - 2 \\ \hline \end{array}$$

Answer _____

Example 2nd grade

From the the AAPS website:

Work with time and money

Tell and write time using analog and digital clocks.

Use A.M. and P.M.

Solve problems involving coins and bills.

Read and write monetary amounts.

What time is it?



Answer _____

Example 5th grade

From the the AAPS website:

Apply and extend previous understandings of multiplication and division to fractions

Solve real-world problems involving division of whole numbers by unit fractions.

Bob and Michelle went on a 24 mile bike ride.

By lunchtime, they had ridden $\frac{5}{8}$ of the total distance.

How many miles did they have left to ride after lunch?

Answer _____

SCORING

- Base completion time will be determined by the time keepers.
- Adjustments to that time will be made as follows:
 - Each correct answer: minus 20 seconds
 - Each incorrect answer: plus 30 seconds
- Teams are ranked based on lowest to highest adjusted time.

Example:

Base completion time:	300 seconds
(5 minutes)	
# correct answers X 20 (4 X 20):	<u>- 80 seconds</u>
# incorrect answers X 30 (1 X 30):	+ 30 seconds
Final time:	
250 seconds	

Pentathlon Preview

A video showing the obstacle course and the specific physical activities will be available on the WESO website the day before the event.



COACHING ADVICE

- Practice a variety of grade level appropriate math problems.
- Familiarize your team with the obstacle course layout and practice the sequence.
- Don't over coach your team!
- Make sure they support each other.
- Most importantly, make it fun!

Questions after tonight?

Please submit questions about this event to weso.events@gmail.com. Enter the event title in the subject line. Answers will be posted on the WESO Blog. You can sign up to receive the blog posts at wesoscience.org.

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QUESTIONS NOW?



- Please submit your questions now using the Google form that was shared with you in the chat.
- We will answer live and post all questions and written answers to the website following the meeting.

Thank you for serving as an event coach and helping us bring back WESO to our community!