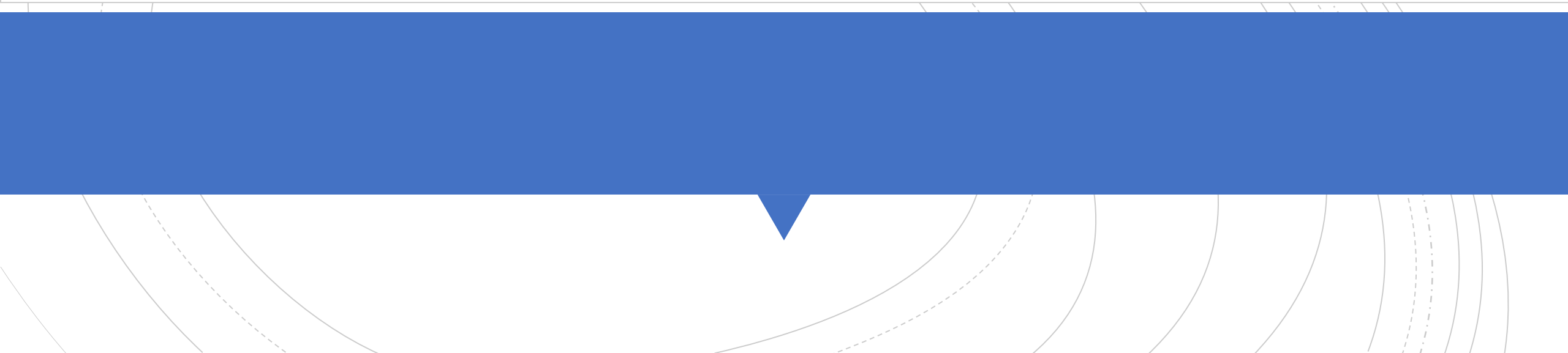ROBOTICS CLUB

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Agenda

Introduction to the program

Information and learnings from the previous years

Q&A

Club Goals

- Spark curiosity and interest in STEM
  - Turn them into learners for life
- Learn
  - Mechanical building
  - Programming
  - Intersection of mechanics, electronics and software
- Participate in various challenges and competitions
  - Teamwork & leadership
  - Design skills

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Platform

- VEX IQ
- What is VEX IQ?
  - VEX IQ is a snap-together robotics system
- Why VEX IQ?
  - Complete educational robotics continuum within one ecosystem – middle school → high school
  - Offers a wide variety of sensors and parts
  - Three different coding languages – Block-based, Python, and C+

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Commitment

- To reap true rewards, the club requires non-trivial commitment (time and effort)
- It's a team-based activity
  - Backing-off will drag the whole team down

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Students

- Weekly meetings for robot-building, experiments, and discussions

- Time at home for research and learning (~1 hour per week)

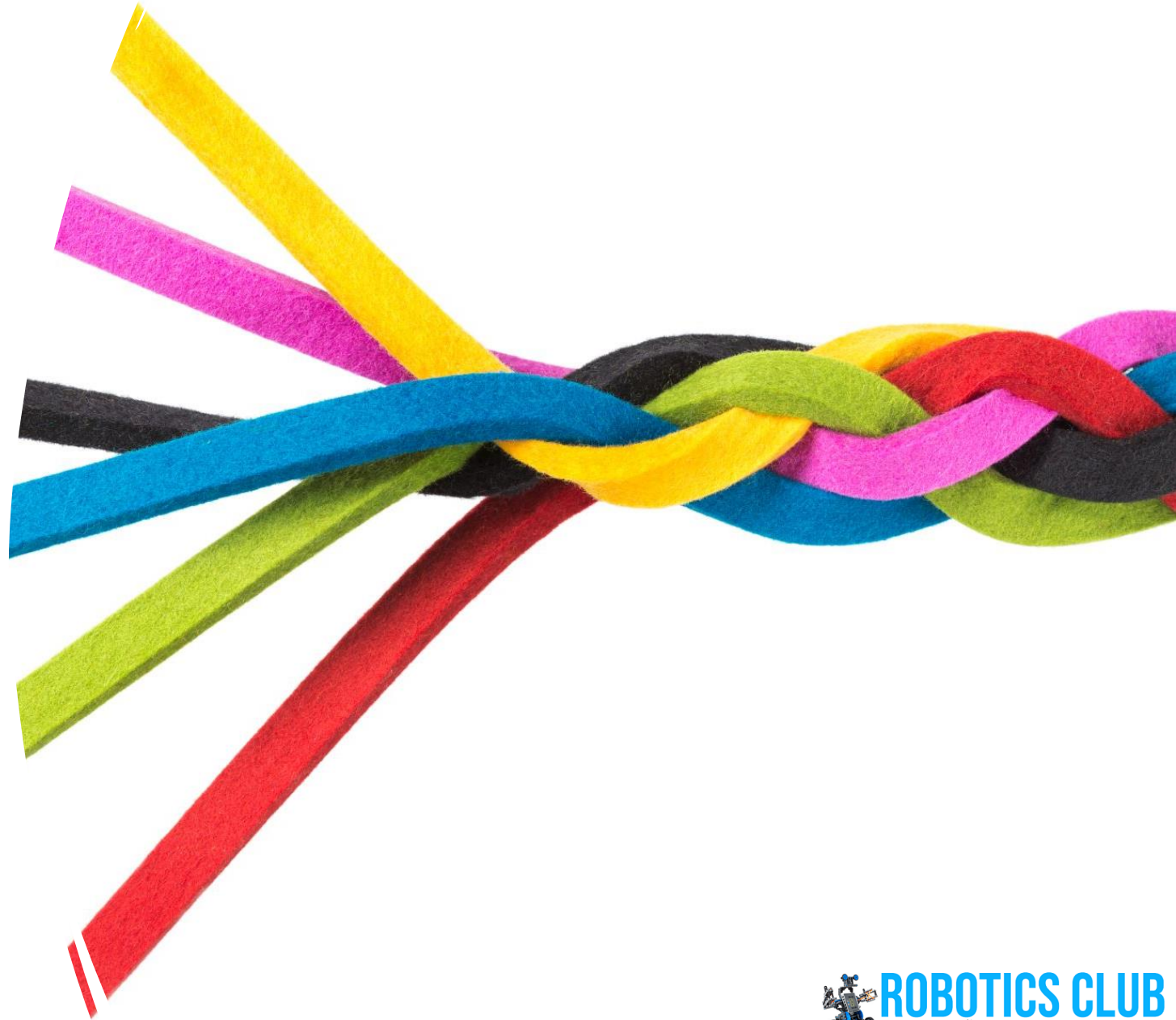- May require more time during competitions (and some travel too)

Parents

- Be on-time and prioritize this commitment
- Emphasize the importance of learning, teamwork, and accountability

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Parent Volunteers

- Involvement from parents is the key for the success of each student and the club!
- We need
  - Coach (one per team)
  - Advisor

Coach

- One per team
- Coordinate with parents, students and communicate with club advisors
- Guide the students in this exciting adventure
- Prior knowledge of robotics preferred, but not necessary

Advisor

- Research and propose activities/challenges that the teams can work on
- Provide clarity for each challenge:
  - Define the desired outcome
  - Design board setup
- Basic knowledge of robotics is sufficient

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Competitions

- Due to the pandemic, there are few competitions
- Teams will have friendly competitions among themselves
- We will explore the possibility of holding friendly competions with other LWSD schools (TMS, EMS, etc.).

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Joining the club

- https://rmsptsa.org/Packet/RoboticsClubReg
- One-time payment of $120 for school year 2021-22
  - Can be waived for families in need
- Students/parents can self-organize into teams, after joining the club

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Funds

- Our student's success depends on the resources we can provide

- The club relies entirely on funds raised by the club

- Need your help
  - Please donate generously, if you can
  - Companies like Microsoft match every $$
    - Donate to **Redmond Middle School PTSA 2.8.80** and mention **"Robotics Club 2021-2022"** in the notes field
  - Companies like Microsoft match volunteer hours
    - Please volunteer
  - Ask local businesses (big and small) to donate and support our Robotics club
  - Find non-profits (LWSF, Bezos Foundations, …) that are willing to support

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Q&A

- Please type your name, email address and child's name in the meeting chat

- Visit our website for more information: https://rmsptsa.org/Page/Programs/RoboticsClub