

# Hope

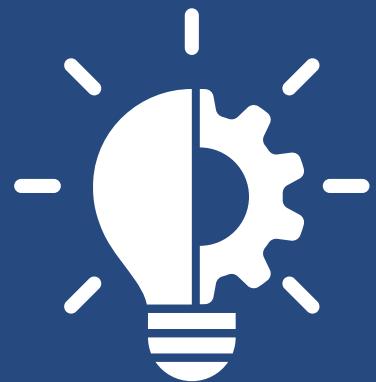


# About program

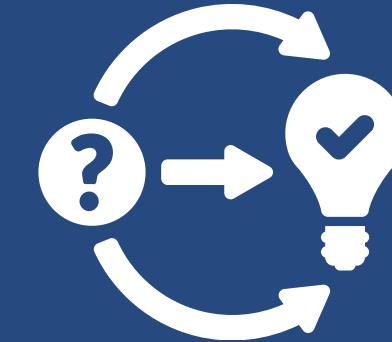


- ✓ 3 - Month premium certification program
- ✓ 58 - STEM Activities
- ✓ Live class and online resource
- ✓ Personalized teaching

# Why STEM ?



**Innovation:** It drives the creation of new technologies and solutions



**Problem-solving:** It teaches students how to analyze and solve complex challenges

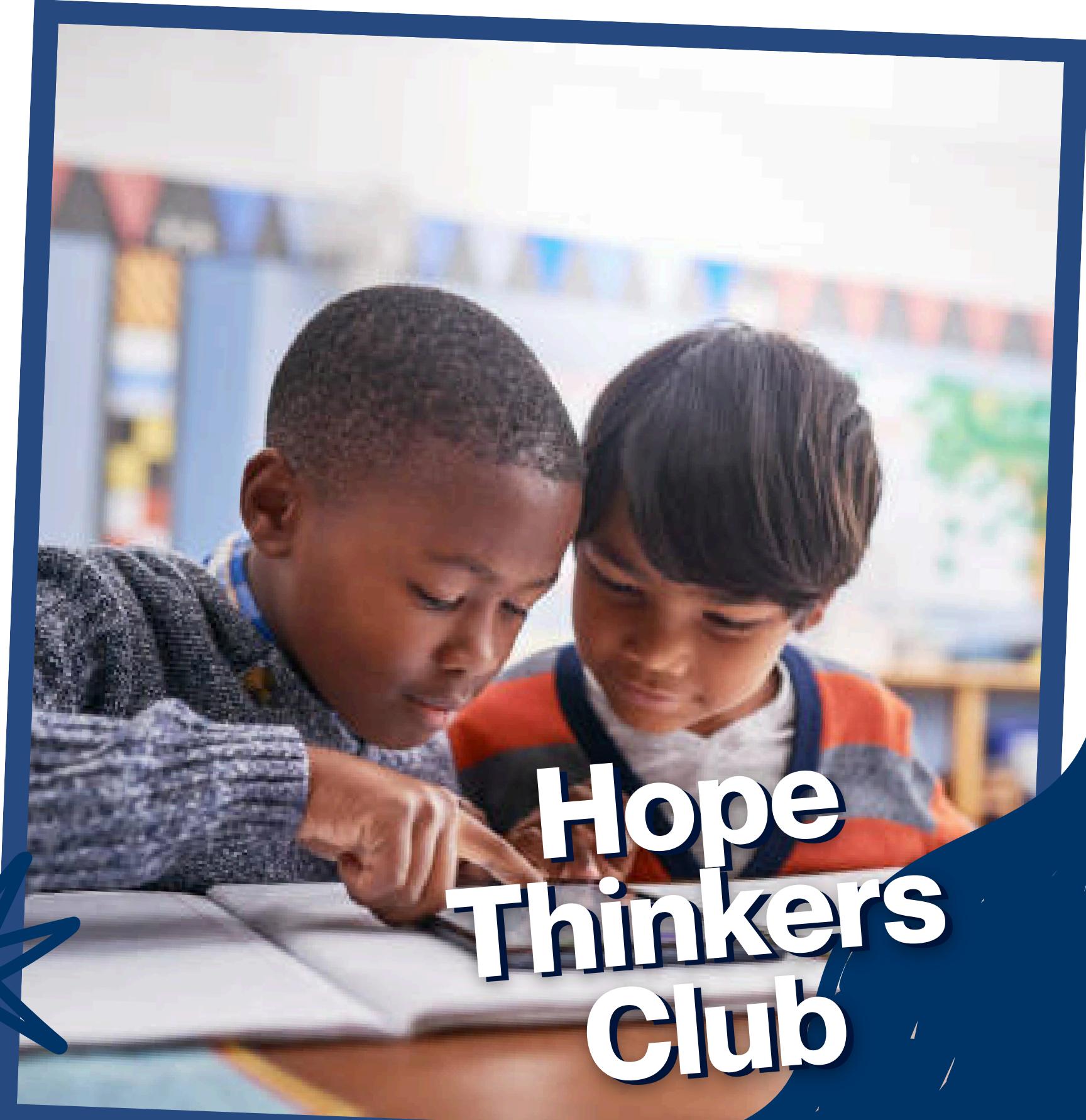
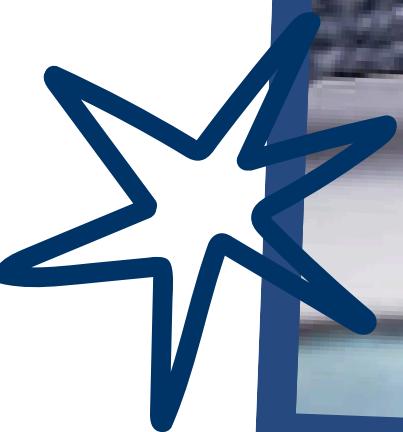


**Careers:** It prepares students for high-demand, high-paying jobs in the modern workforce



**Literacy:** It provides the essential skills needed to understand a technology-driven world

# Level 1: LKG & UKG ages (4-5)

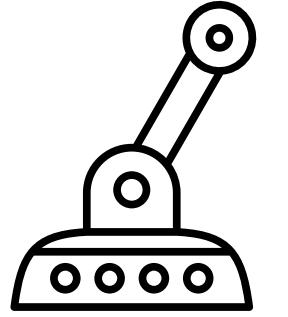


Hope  
Thinkers  
Club

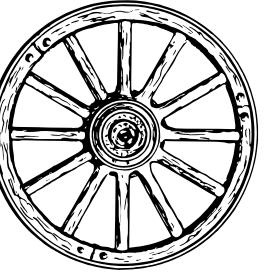
# Month 1: Simple Machines & Toy Play (16 Activities)



Week 1: Push, Pull & Move



Week 2: Levers Around Us



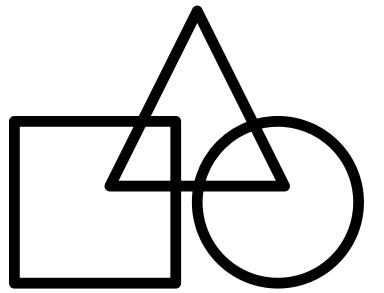
Week 3: Wheels Make Work Easy



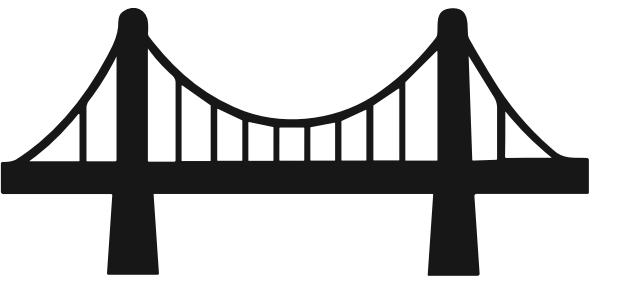
Week 4: Ramps & Slopes

# Month 2: Buildings, Bridges & Flying

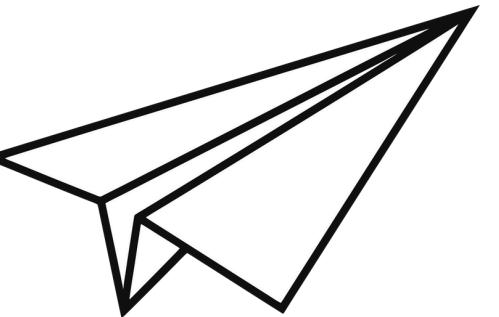
## Fun (16 Activities)



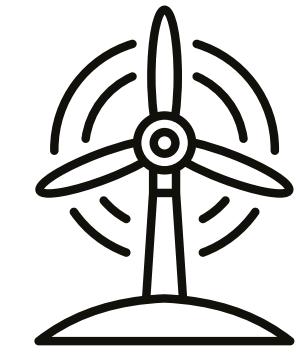
Week 5: Strong  
Shapes



Week 6: Bridges  
We See

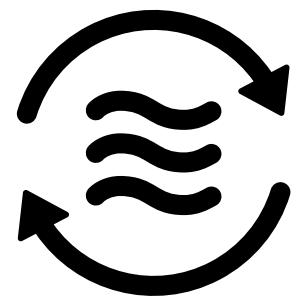


Week 7: Flying  
Paper

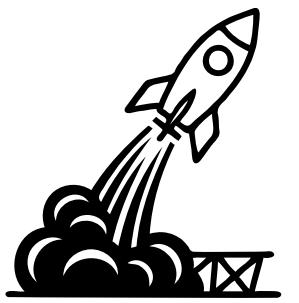


Week 8: Wind  
Power

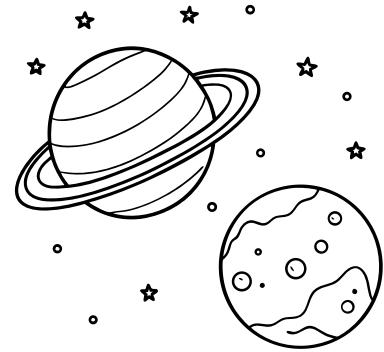
# Month 3: Rockets & Space Play (16 Activities)



Week 9: Air Has Power



Week 10: Rocket Shapes

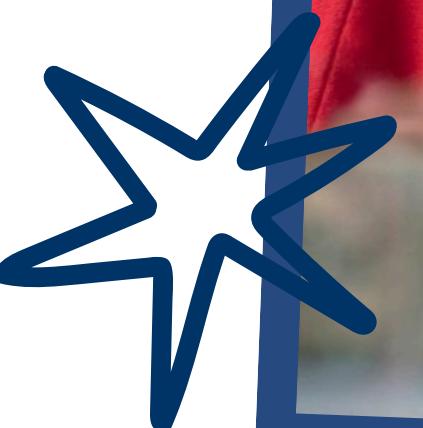
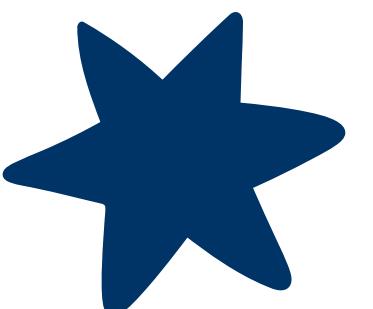


Week 11: Space & Planets



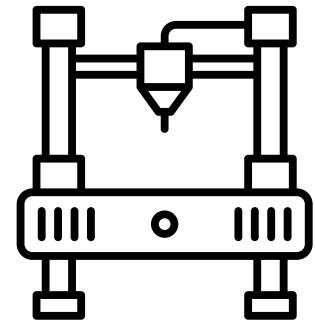
Week 12: Mini STEM Expo

# Level 2: Grades 1 & 2 (Ages 6-7)

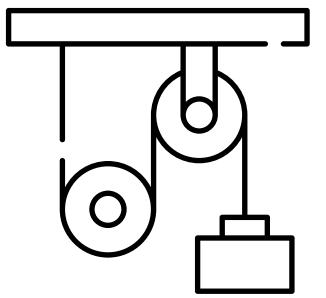


Hope  
Thinkers  
Club

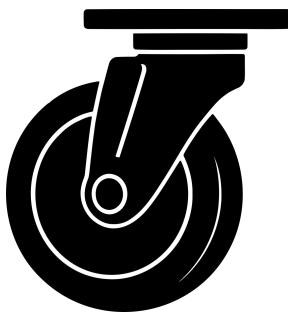
# Month 1: Simple Machines & Toy Engineering (16 Activities)



Week 1: Simple Machines Around Us



Week 2: Levers & Pulleys

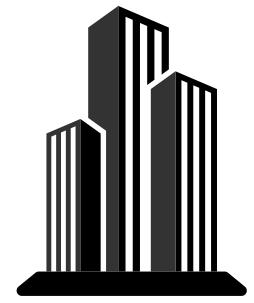


Week 3: Wheels & Axles



Week 4: DIY Moving Toys

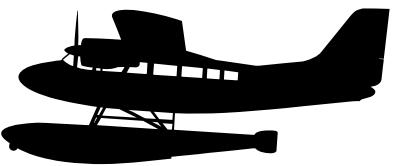
# Month 2: Buildings, Bridges & Aeromodelling (16 Activities)



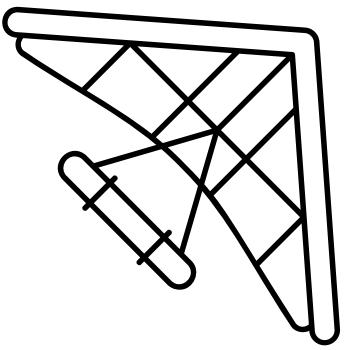
Week 5: Strong  
Buildings



Week 6: Bridges

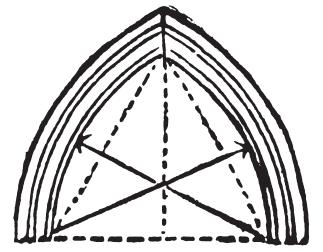


Week 7: Wings &  
Lift

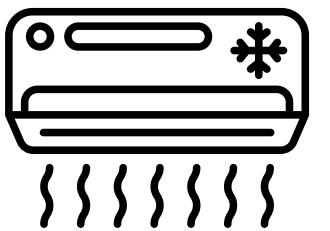


Week 8: Gliders

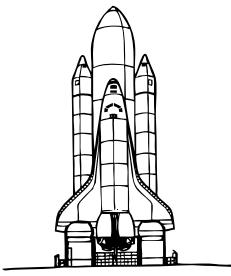
# Month 3: Rocket Science (16 Activities)



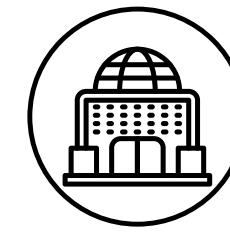
Week 9: Thrust Basics



Week 10: Air Pressure



Week 11: Rocket Stability



Week 12: STEM Expo

# LEVEL 3: Grades 3, 4 & 5 (Ages 8-10)

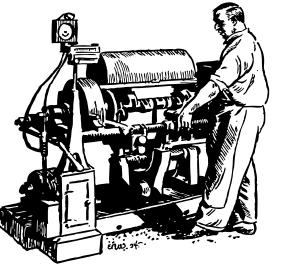


## Hope Thinkers Club

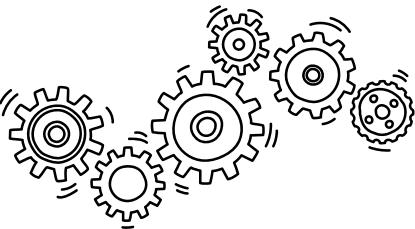
# Month 1: Mechanical Engineering (16 Activities)

$$F=ma$$

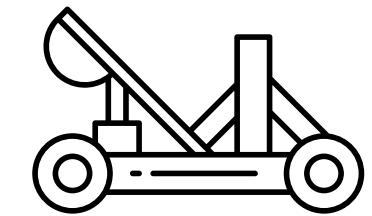
Week 1: Forces & Motion



Week 2:  
Compound  
Machines



Week 3: Gears

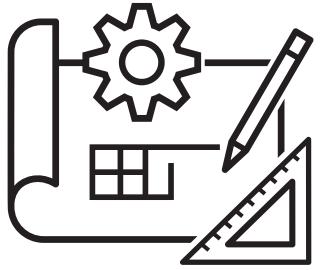


Week 4: Catapult Engineering

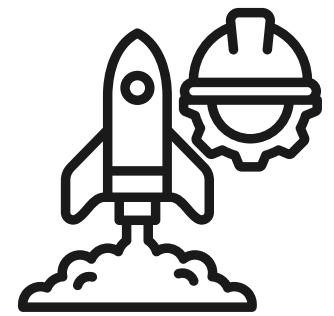
# Month 2: Structures & Aeromodelling (16 Activities)



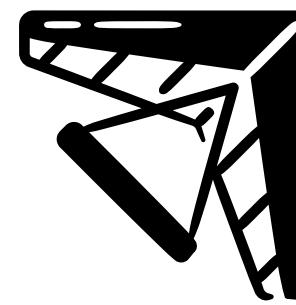
Week 5: Load & Strength



Week 6: Bridge Engineering



Week 7:  
Aerodynamics

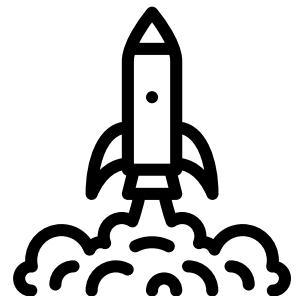


Week 8:  
Controlled Gliders

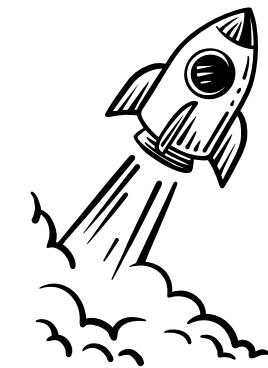
# Month 3: Rocket Science (16 Activities)



Week 9: Newton's Laws



Week 10: Thrust



Week 11: Rocket Stability



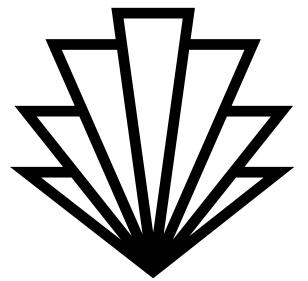
Week 12: Space Mission & Expo

# LEVEL 4: Grades 6, 7 & 8 (Ages 11–13)



Hope  
Thinkers  
Club

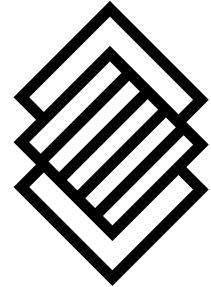
# Month 1: Mechanical Systems (16 Activities)



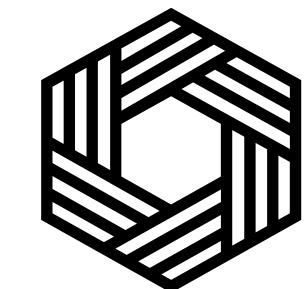
Week 1: Force & Work



Week 2:  
Mechanical  
Advantage

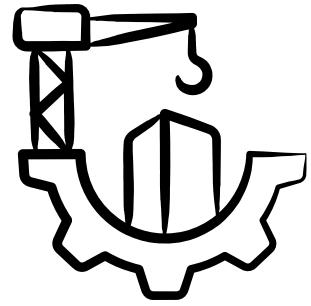


Week 3: Gears & Energy

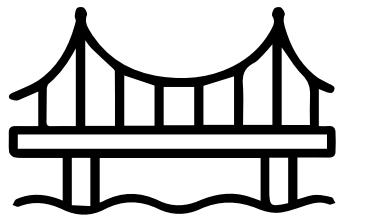


Week 4: Toy  
Engineering

# Month 2: Structures & Aerodynamics (16 Activities)



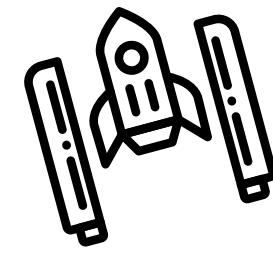
Week 5: Structural Loads



Week 6: Bridge Analysis

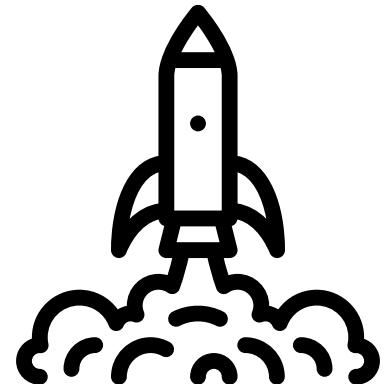


Week 7:  
Aerodynamics

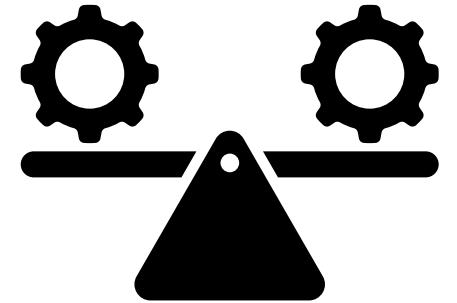


Week 8: Payload Gliders

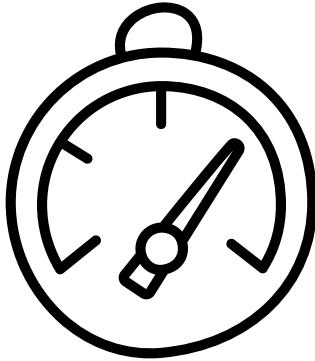
# Month 3: Rocket Science & Innovation (16 Activities)



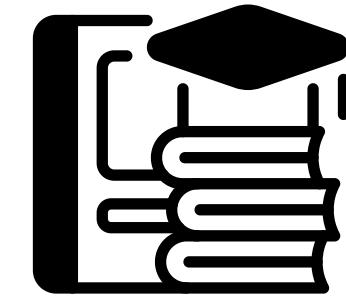
Week 9: Thrust vs Mass



Week 10: Stability



Week 11: Air-Pressure Rockets



Week 12: Capstone & Expo

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# Reach out to us through

[support@hopestem.com](mailto:support@hopestem.com)

