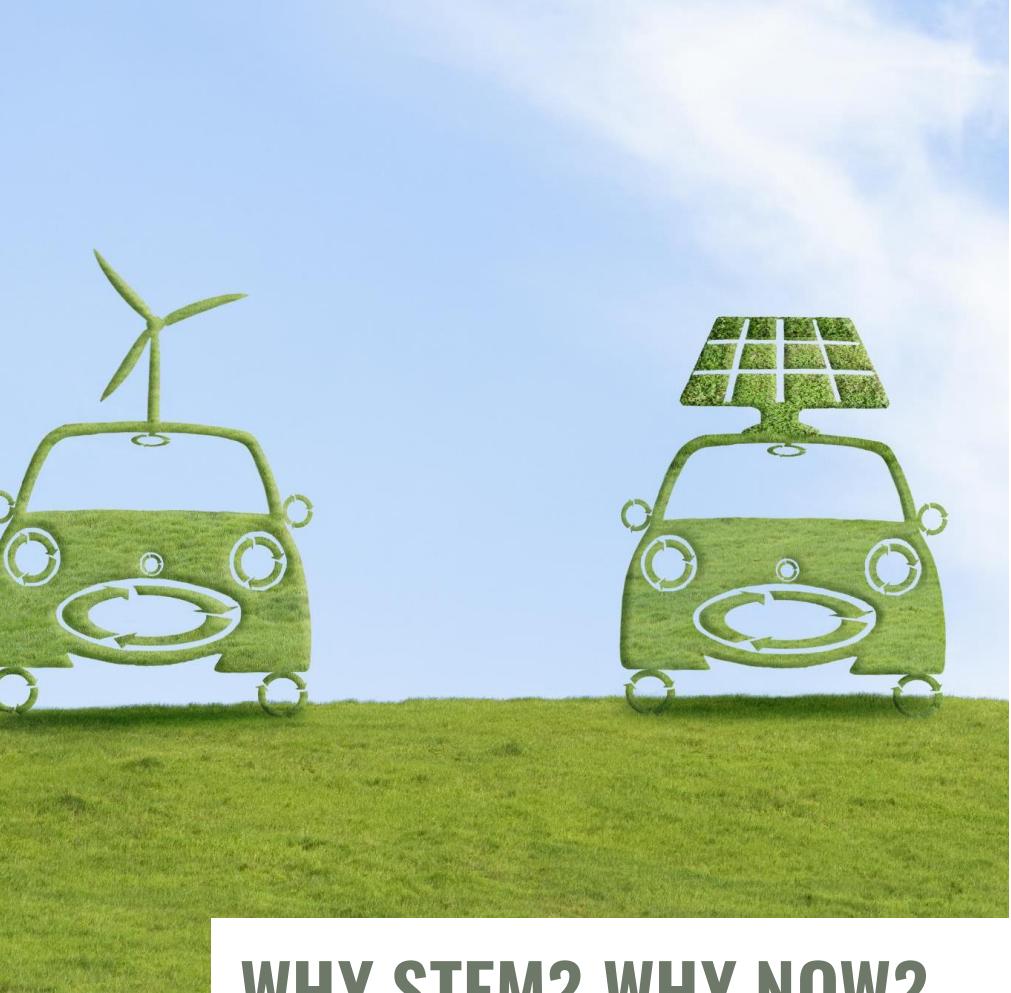


# INSPIRING STUDENTS IN STEM



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# WHY STEM? WHY NOW?



## WHY STEM? WHY NOW?

### STEM Drives Progress

STEM fuels innovation across sectors including renewable energy and space exploration, essential for future advancements.

### Urgency of STEM Today

Addressing climate change and energy sustainability requires bold thinkers and fresh STEM ideas.

### Solar Car Challenge Impact

The Solar Car Challenge combines engineering, teamwork, and creativity to solve real-world energy problems.

### STEM Empowers Students

Participating students power communities and inspire change through STEM leadership and innovation.

**PURPOSE  
POWERS  
PERFORMANCE**



# PURPOSE POWERS PERFORMANCE

## Importance of Clear Purpose

Great innovators begin with a clear WHY that fuels motivation and creativity during challenges.

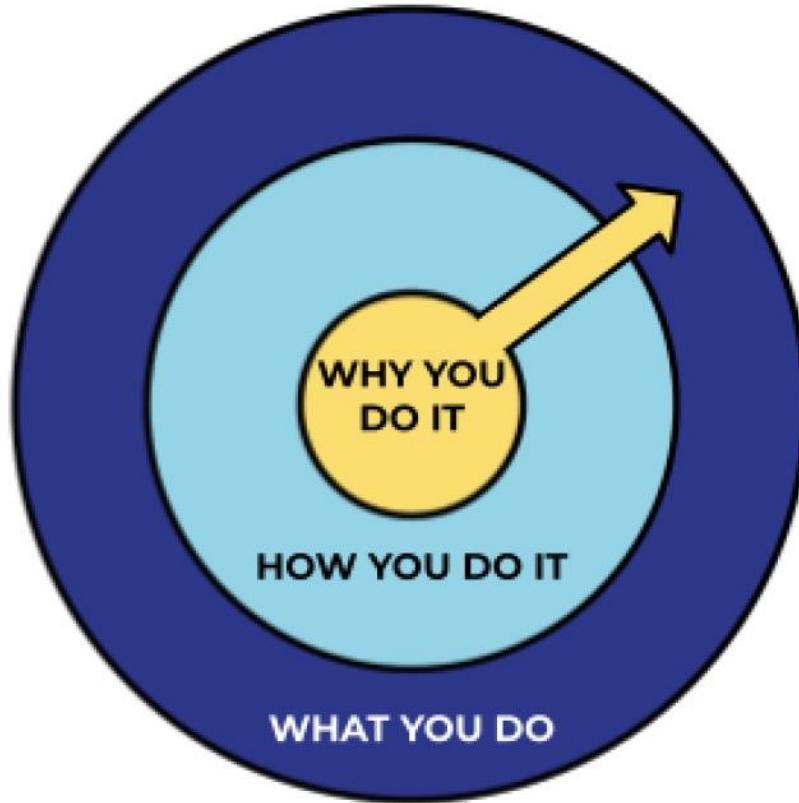
## Purpose Drives Team Alignment

Defining a team's WHY fosters ownership and alignment, enhancing collaboration and performance.

## Purpose Enhances Resilience

A strong purpose helps teams stay focused and motivated through setbacks and challenges.

# PURPOSE POWERS PERFORMANCE



## WHY YOU DO IT

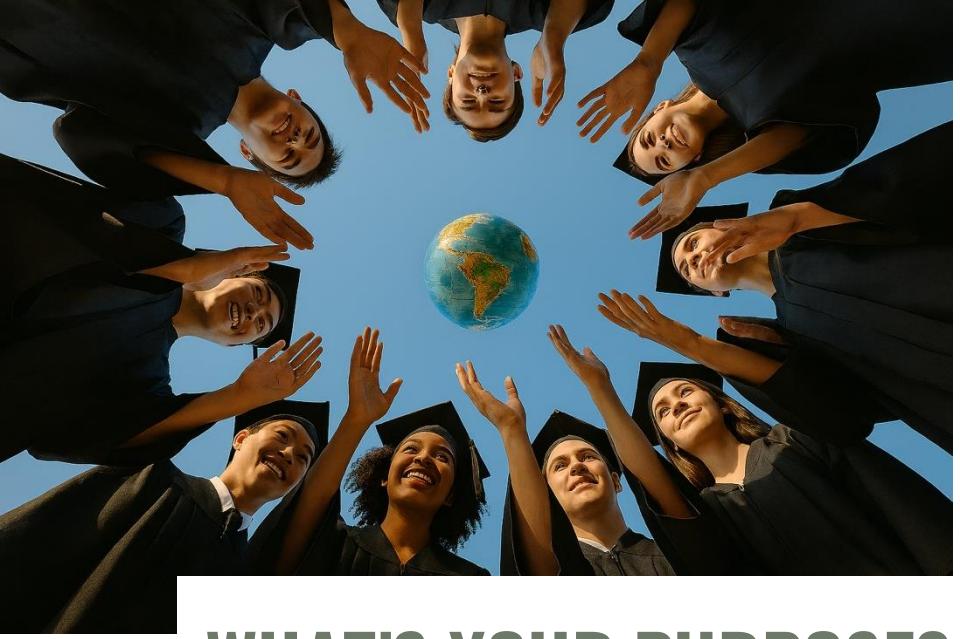
This is your purpose for doing what you do everyday

## HOW YOU DO IT

These are the skills and talents you acquire and use

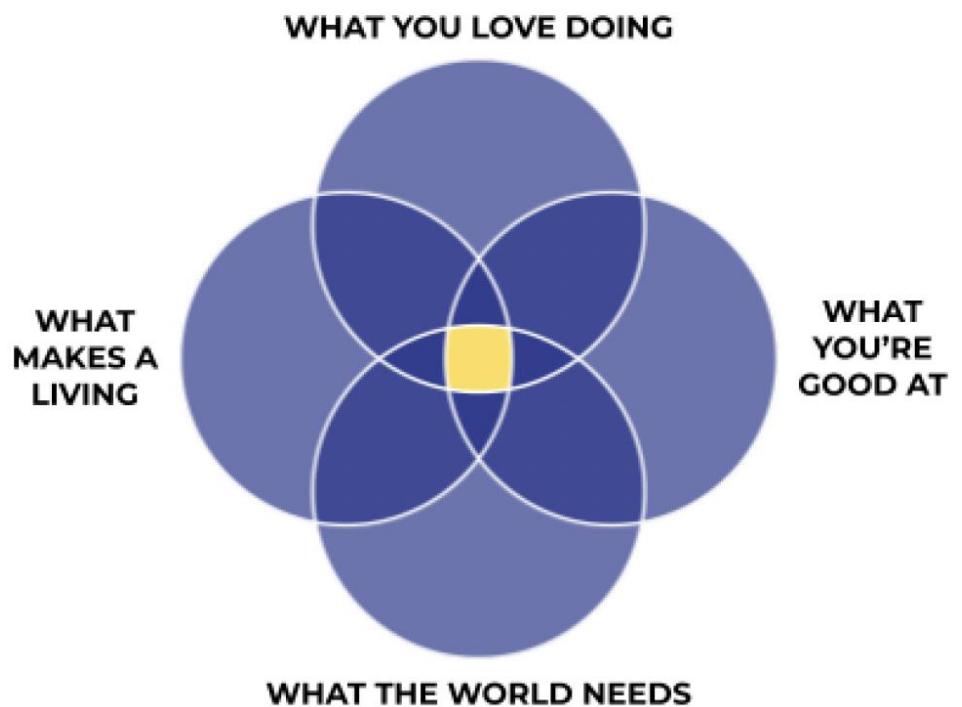
## WHAT YOU DO

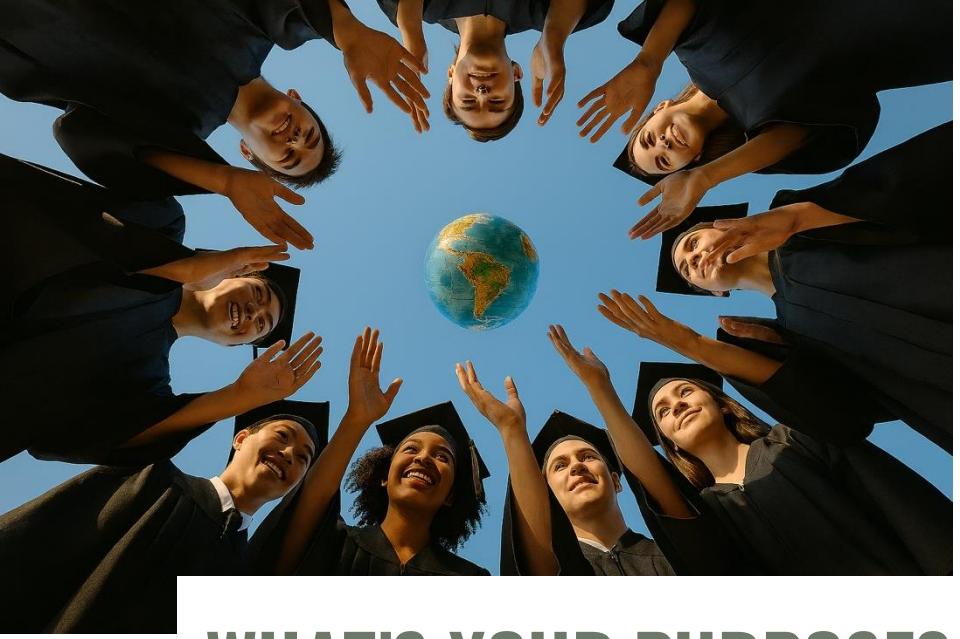
The role or job function.



## WHAT'S YOUR PURPOSE?

- The Japanese word */kigai/*(生き甲斐) roughly translates to “the value of life.” .
- Use the modified */kigai/* model to help identify your sense of purpose as you prepare to launch.





# WHAT'S YOUR PURPOSE?

## SAMPLE STARTER PROMPTS

<b>Big Vision &amp; Mission</b>	"I want to create a world where..."  "I believe everyone deserves..."  "I wake up every day to..."
<b>Personal Drive</b>	"I feel most fulfilled when I can..."  "I am my best self happens when I..."  "At my core, I am driven to..."
<b>Growth &amp; Contribution</b>	"I grow by..."  "I bring value to the world by..."  "I make a difference when I..."
<b>Intention &amp; Identity</b>	"I am someone who..."  "What I do matters because..."  "A career is a way for me to..."



## SET YOUR MAIN OUTCOME

### Importance of Clear Goals

Clear and specific goals guide teams toward measurable success and help focus energy on key outcomes.

### Breaking Down Milestones

Big goals should be divided into actionable milestones with assigned owners and deadlines for accountability.

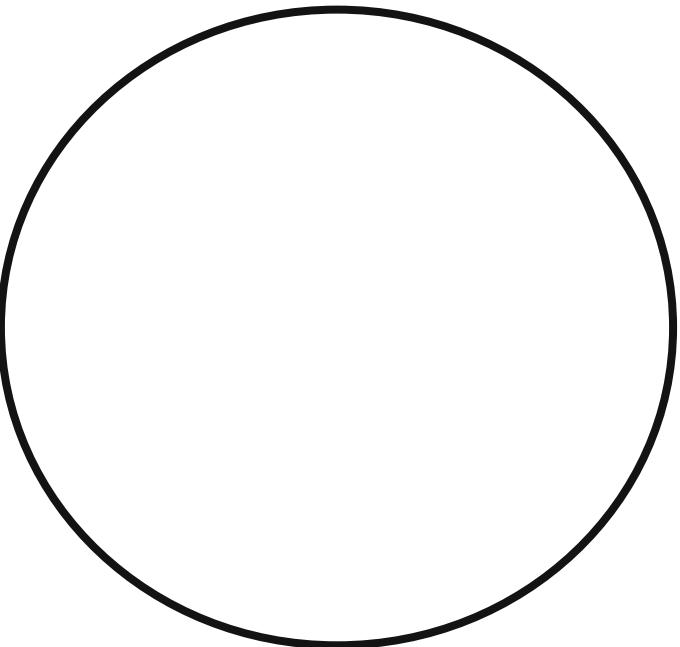
### Accountability and Tracking

Assign roles and track progress regularly to maintain momentum and ensure goals are met effectively.

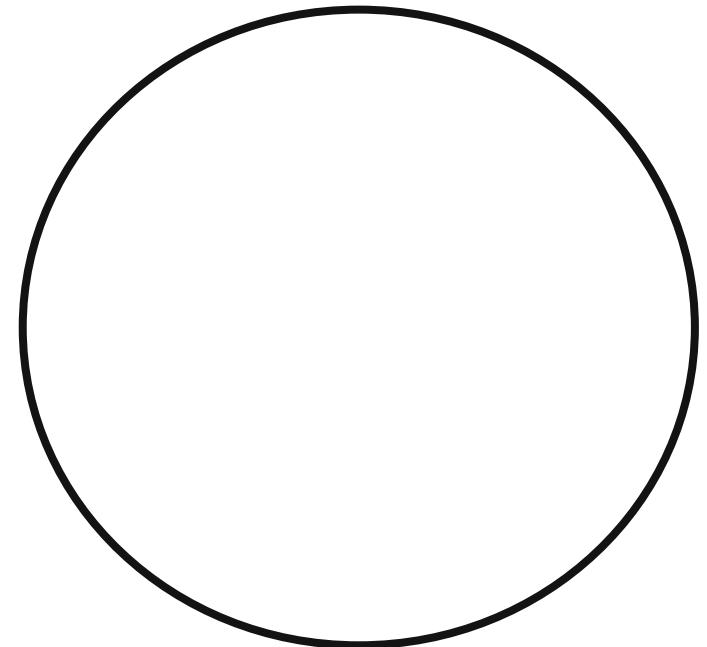


## WHAT'S YOUR MAIN OUTCOME?

Top 3  
Personal Outcomes



Top 3  
Professional Outcomes

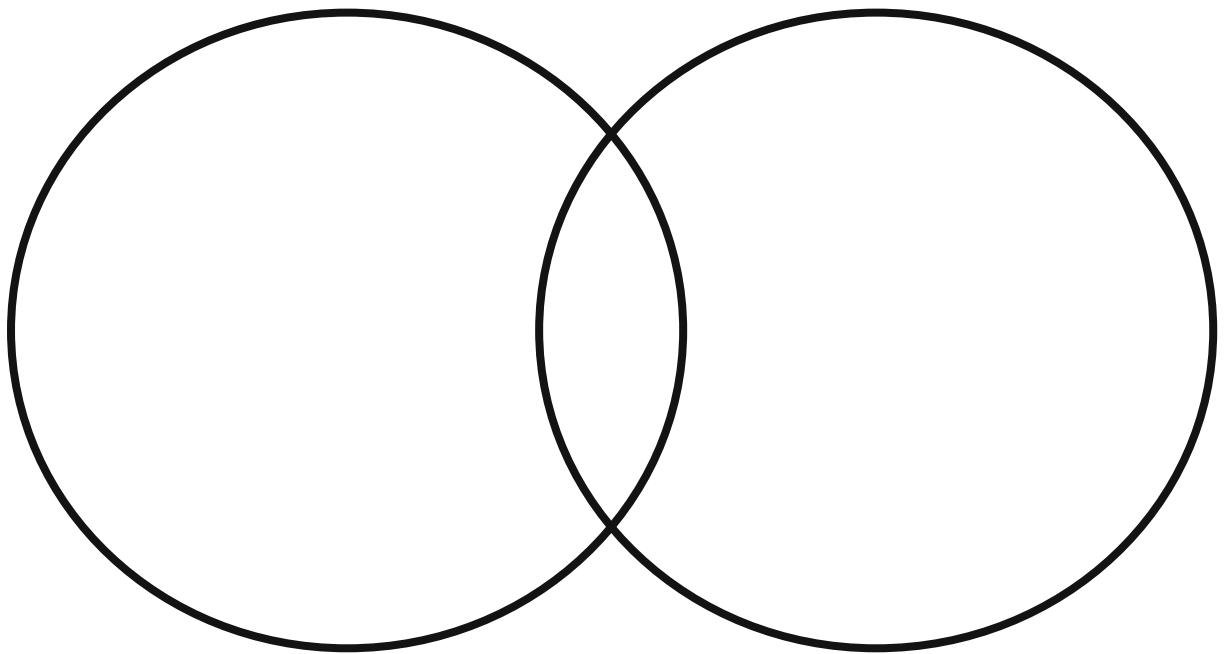




## WHAT'S YOUR MAIN OUTCOME?

Top 3  
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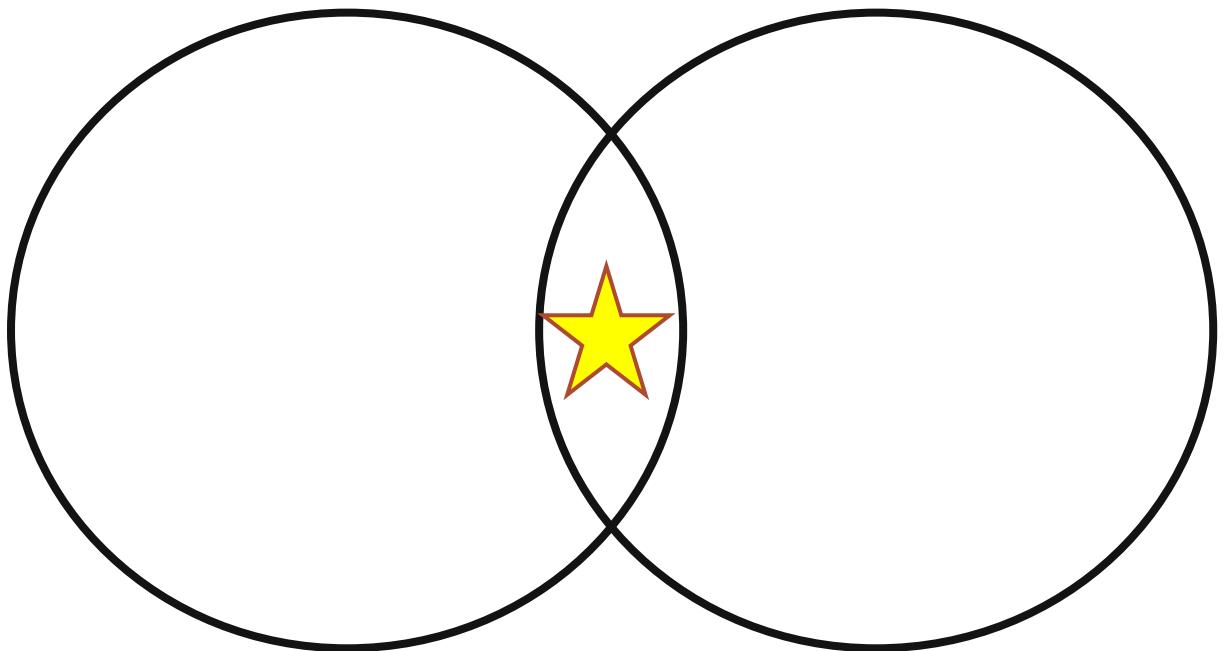




## WHAT'S YOUR MAIN OUTCOME?

Top 3  
Personal Outcomes

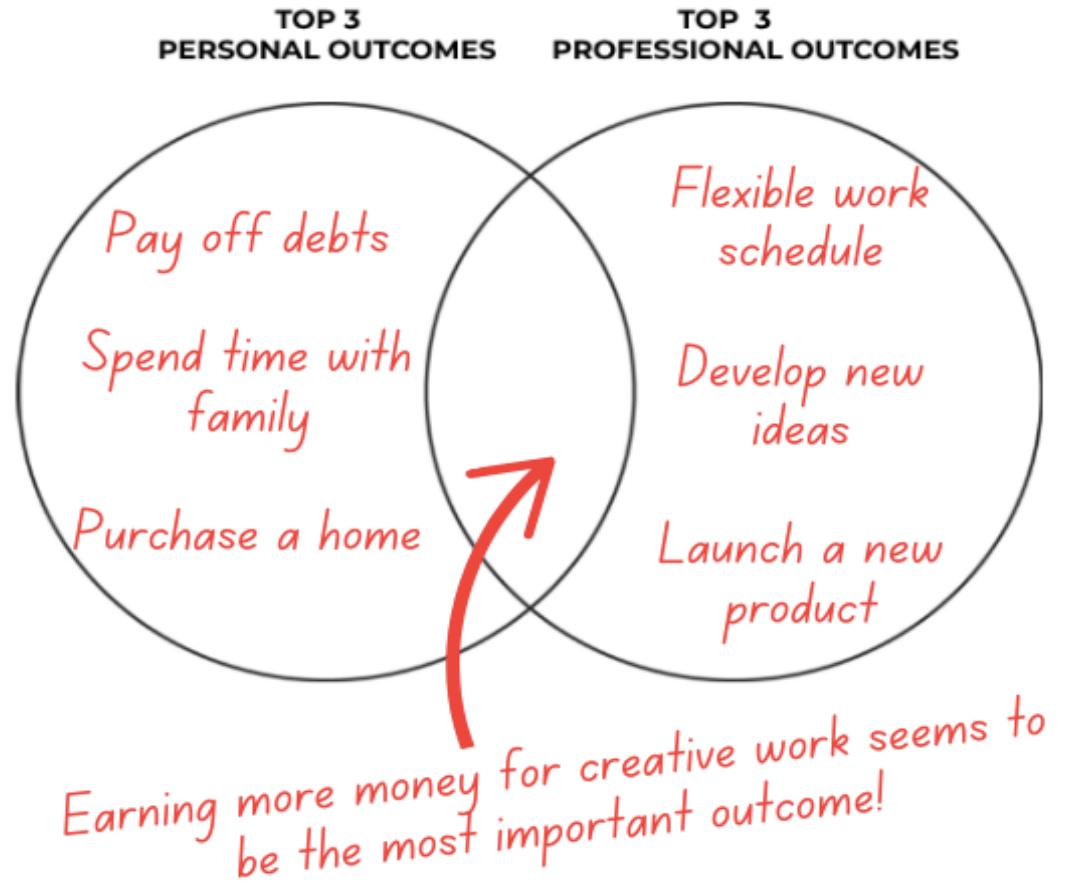
Top 3  
Professional Outcomes





## WHAT'S YOUR MAIN OUTCOME?

### Client Example





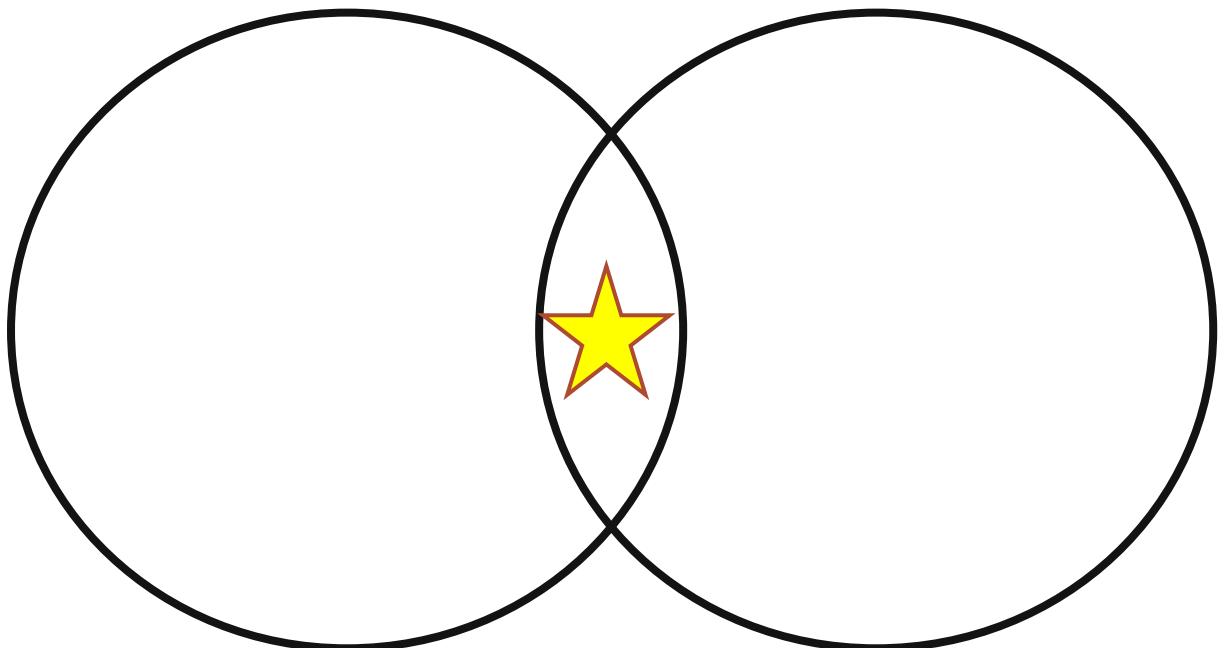
## WHAT'S YOUR MAIN OUTCOME?

What do you need to do after high school to achieve your main outcome?

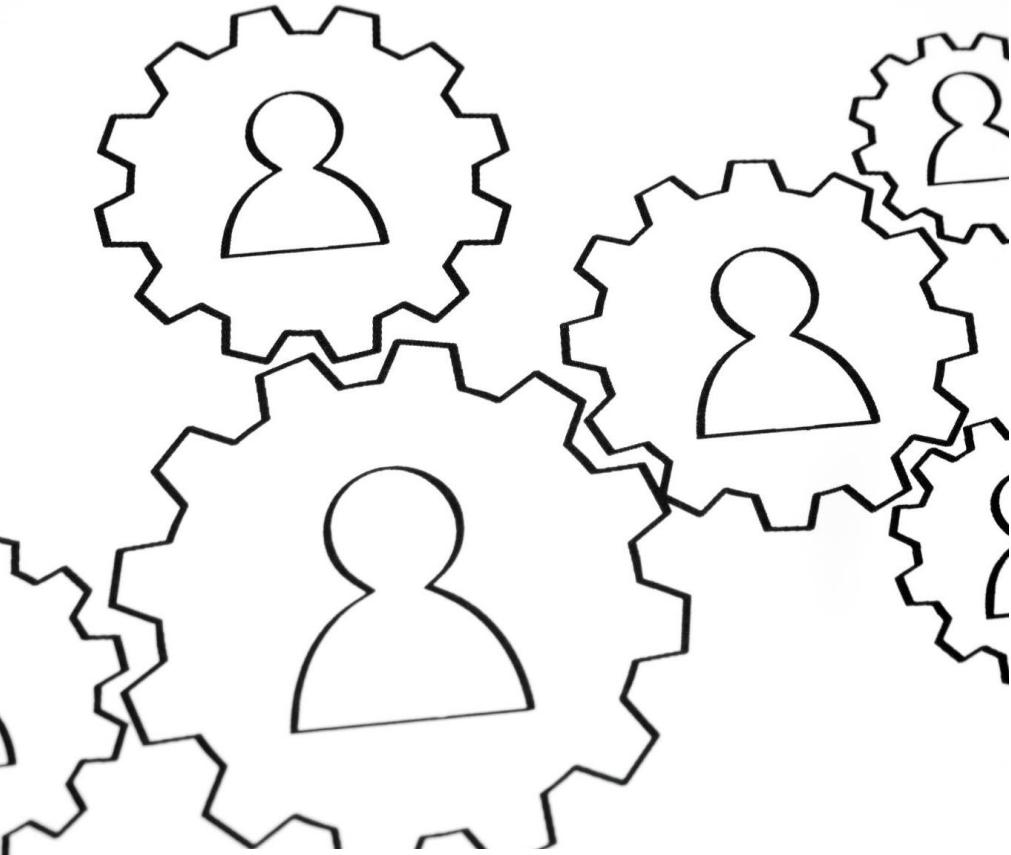
What do you need to do (or change) in order to achieve your main outcome?

Top 3  
Personal Outcomes

Top 3  
Professional Outcomes



# SKILLS AND TEAM DYNAMICS



## YOU'VE GOT SKILLS

### Core Skills Development

Students hone problem-solving, creativity, and grit through practice and challenge participation.

### Teamwork Essentials

Effective communication, active listening, and adaptability are key to successful teamwork.

### Leadership as Service

Leaders empower teams, take responsibility, and embody resilience and service-mindedness.

### Skills Beyond Challenge

These skills translate into careers, fostering collaboration and innovation in real-world projects.



# YOUR UNIQUE EDGE

## Identify Unique Strengths

Recognize what sets your team apart, like innovation or collaboration, to define your unique edge.

## Create Bold Taglines

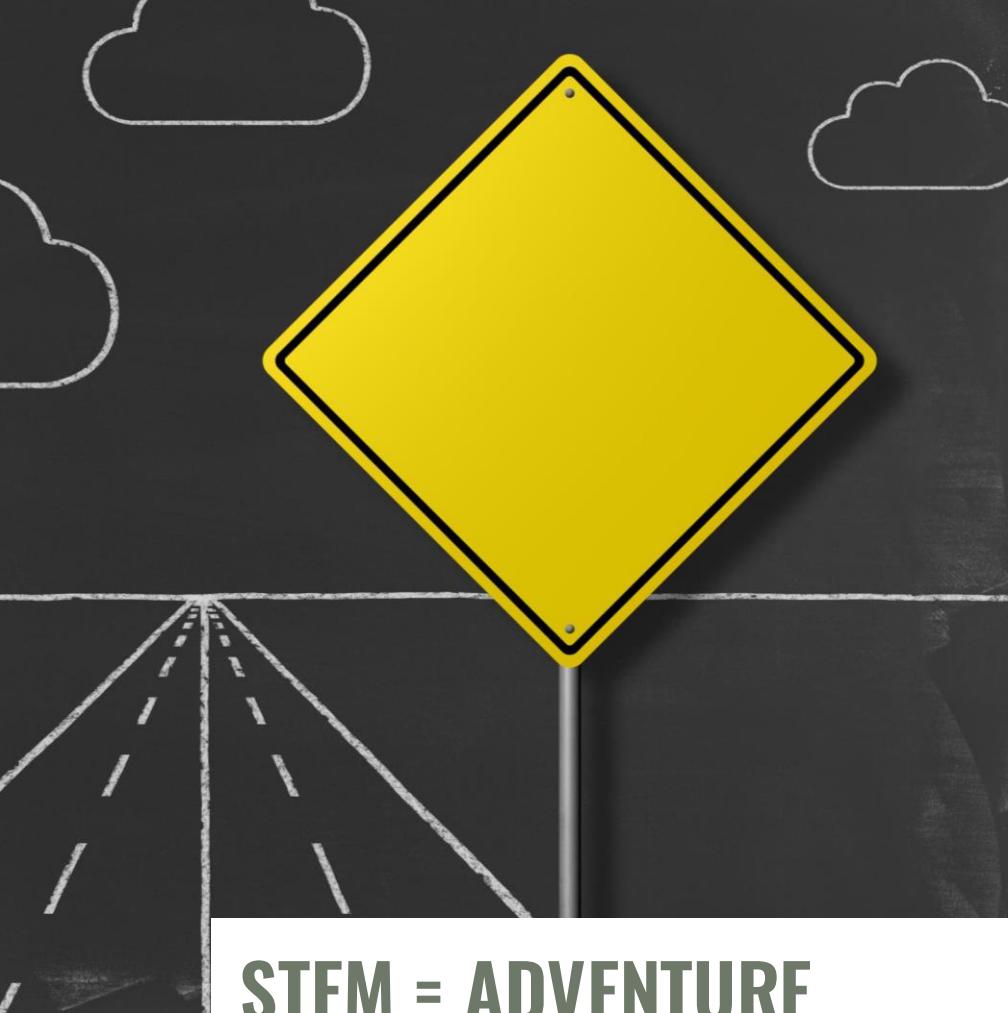
Craft compelling seven-word taglines that capture your essence and unique value proposition.

## Leverage Strengths for Advantage

Focusing on areas of strength helps teams prioritize resources and gain competitive advantages effectively.

## Build Confidence and Identity

Defining and embracing uniqueness builds team confidence, clarity, and positions them for success.



## STEM = ADVENTURE

### STEM as a Journey

Frame STEM projects as exciting adventures, positioning students as captains navigating their learning expedition.

### Planning and Iteration

Successful navigation requires careful planning involving design, building, testing, and iterating processes.

### Tools for Precision

Instruments like checklists, data logs, and safety protocols ensure accuracy and reliability in STEM projects.

### Anticipate and Adapt

Like explorers, teams must anticipate obstacles and adapt quickly to changing conditions for success.



## OVERCOME OBSTACLES

### Mindset Shift on Failure

Failure is part of success, not its opposite; adopting 'We don't lose; we learn' encourages growth.

### Strategies to Overcome Challenges

Effective methods include testing early, fixing issues quickly, and maintaining open communication.

### Interactive Risk Mitigation

Listing potential risks and brainstorming mitigation builds proactive thinking and confidence.

### Resilience as Adaptability

Resilience combines persistence with adaptability and optimism essential for creativity and success.

YOUR FUTURE  
STARTS NOW



**YOUR FUTURE STARTS  
NOW**

#### **Inspiring Call to Action**

Encourage students to embrace STEM as a path to impact and growth with discipline and curiosity.

#### **Solar Car Challenge as Stepping Stone**

Frame the challenge as a gateway to engineering, technology careers, and innovation opportunities.

#### **Long-Term Benefits of Engagement**

Highlight success stories of past participants who pursued STEM degrees or launched startups.

#### **Commitment to Growth**

Invite students to commit to learning new skills or mentoring peers to drive personal growth.

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Fmr President, Texas Instruments – Education Technology

# THANK YOU!