

EXPEDITION ATACAMA

MAY 10 - 23, 2014

DAILY AGENDA

IT'S ABOUT

INSPIRING – EDUCATING - EMPOWERING –YOUTH

IT'S ABOUT

REAL MOMENTS®!

	INSPIRE	EDUCATE	EMPOWER	LIVE CLASSROOM CONNECTION FROM THE DESERT
	YOUTH AMBASSADOR PHYSICAL CHALLENGE	ORIGINS OF THE UNIVERSE	FINANCIAL KNOWLEDGE & RESILIENCY	digigone DATES i2P YOUTH AMBASSADORS INTERACTING (LIVE!) WITH STUDENTS AROUND THE GLOBE!
Pre Expedition	Travel and Preparation	Youth Ambassador Preparation	i2P Classroom Challenges: <ol style="list-style-type: none"><i>Generations Interview: Interview a family member from a different generation about what methods they used to save over time. What goals were they planning for?</i><i>If all your bills were paid and you found \$100, what would you spend it on?</i><i>Essay Contest - Financial Literacy</i>	

<p>May 12 Day 1</p>	<p><i>The five Youth Ambassadors (YAs) will be testing their limits mentally and physically as they run a marathon a day during the Expedition!</i></p> <p><i>At an elevation of over 8,000 feet the Atacama Desert sits between the Andes Mountains and the Pacific Ocean. It is the driest non-polar desert on planet Earth with terrain that resembles Mars!</i></p> <p><i>The YAs will be traversing stony terrain, salt lakes (salares), sand, and felsic lava that flows towards the Andes.</i></p>	<p>Positional Astronomy (naked-eye Astronomy)</p> <p>Positions and motions of celestial objects.</p> <p>What can you see with the naked-eye.</p> <p>Moon, planets, about 3,000 stars with your unaided eye.</p> <p>Introduction to colour differences, what they mean, star clusters, nebulae, galaxies, transient sightings (mete- ors, comets).</p> <p>Star navigation activity.</p>	<p>Youth Ambassadors</p> <ul style="list-style-type: none"> Debate: <p><i>Has our perception of the need to "save" diminished over time compared to our grandparents?</i></p> <p>see video and activities under Financial Literacy tab on website</p>	<p>digigone Satellite Call with Students around the World</p> <p>1:00 pm Eastern</p>
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<p>May 13 Day 2</p>	<p>Follow the Youth Ambassadors on the Expedition Website</p> <p>www.i2Patacam.com</p> <p>to learn about the Real Moments they experienced in their marathon today!</p>	<p>Newton's Universe</p> <p>Key concepts, Newtonian physics revolutionized the way we understand the Universe.</p> <p>The basics of Newton's laws of mechanics, the conservation laws that follow from them, theory of gravity and it's applications to Astronomy, what followed Newton.</p> <p>Earth rotation, formation of the moon.</p>	<p>Youth Ambassadors</p> <p>Your Habit Action Plan</p> <ul style="list-style-type: none"> • Video • Easy, fun activity classrooms can follow • Personal Money Motto • see video and activities under Financial Literacy tab on website <p><u>Objective:</u></p> <p>To understand possible consequences of sensible/ unwise financial habits and how they impact us.</p> <p>To understand that creating sensible habits and setting priorities help us to become more resilient in our everyday lives.</p>	
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<p>May 14 Day 3</p>	<p>Follow the Youth Ambassadors on the Expedition Website</p> <p>www.i2Patacam.com</p> <p>to learn about the Real Moments they experienced in their marathon today!</p>	<p>Planets</p> <p>What are the properties and structure of our Solar System and our understanding of its origins and history? We will end with some discussion of the exciting discoveries over the past decade of many hundreds of extrasolar planets.</p> <p>What are the elements in the universe that gave rise to life?</p> <p>Is there life on other planets? Is it intelligent?</p> <p>What are the prospects for life on other planetary bodies in our Solar System and how do we go about searching for it? What conditions are required for a planet to be habitable?</p> <p>How do we search for Earth-like planets orbiting distant stars and how would we detect life on them? Have we found any yet? How far are they?</p> <p>What are the possibilities for intelligent life elsewhere? How would we deal with contact with an extraterrestrial intelligence and what would be the impact on society?</p> <p>Stephen Hawking suggests trying to find intelligent life in the universe is a bad idea. "We only have to look at ourselves to see how intelligent life might develop into something we wouldn't want to meet. "Who would represent Earth?</p>	<p>Youth Ambassadors</p> <p>Decision Challenge Game</p> <ul style="list-style-type: none"> • Video • Easy, fun activity Classrooms can follow • see video and activities under Financial Literacy tab on website <p><u>Objective:</u></p> <p>To look at the possible reasons we make the spending decisions that we do.</p> <p>To understand the decision making process as a way to make better spending decisions.</p> <p>To identify factors that might influence our decisions.</p>	<p>digigone Satellite Call with Students around the World</p> <p>1:00 pm Eastern</p> <p>7:00 pm Eastern (New Zealand)</p>
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<p>May 15 Day 4</p>	<p>Follow the Youth Ambassadors on the Expedition Website</p> <p>www.i2Patacam.com</p> <p>to learn about the Real Moments they experienced in their marathon today!</p>	<p>Stars</p> <p>Introduction to the Sun our best known star.</p> <p>What is a star? Are there different types? How long do they burn? What are they made from?</p> <p>Star classifications; distance, mass, and size measurements; clusters; and stellar evolution.</p>	<p>Youth Ambassadors</p> <p>Reaching Goals Activity</p> <ul style="list-style-type: none"> • Video • Easy, fun activity Classrooms can follow • Visualization exercise • see video and activities under Financial Literacy tab on website <p><u>Objective:</u></p> <p>To understand the difference between short, medium and long term goals.</p> <p>To investigate steps one can take to reach their goals.</p> <p>To examine how one might balance needs and wants in order to achieve goals.</p>	<p>digigone Satellite Call with Students around the World</p> <p>1:00 pm Eastern</p>
<p>May 16 Day 5</p>	<p>Follow the Youth Ambassadors on the Expedition Website</p> <p>www.i2Patacam.com</p> <p>to learn about the Real Moments they experienced in their marathon today!</p>	<p>Exploration</p> <p>Space exploration, early steps, milestones, the future of exploration, pop culture.</p>	<p>Youth Ambassadors</p> <p>Resiliency Reflections + Real Moments®</p> <p>Describing the physical challenges and overcoming obstacles.</p>	<p>digigone Satellite Call with Students around the World</p> <p>1:00 pm Eastern</p> <p>7:00 pm Eastern (New Zealand)</p>

May 17 Day 6	Follow the Youth Ambassadors on the Expedition Website www.i2Patacam.com to learn about the Real Moments they experienced in their marathon today!	Galaxies and Black Holes What is a galaxy? What is Galactic structure and classification. Active galactic nuclei, quasars and blazars. Galactic rotation curves and dark matter. Galaxy clusters and large-scale structure.		
May 18 Day 7		Cosmology and Relativity What we can say about the universe as a whole? Its birth, growth, shape, size and eventual fate. Hubble and the Expanding universe. Big bang cosmology. The cosmic microwave background. Early universe physics. social justice, economics of space. Origins of different sciences, impact on society, literacy.		
May 19 Day 8				digigone Satellite Call with Students around the World 1:00 pm Eastern

The **mission** of impossible2Possible (i2P) is to encourage youth to reach beyond their perceived limits, and to use adventure as a medium to educate, inspire and empower our global community to make positive change in the world.

The **vision** of impossible2Possible (i2P) is to use adventure to cultivate a generation of leaders, whose direct experiences and education will prepare them to lead social and environmental action all across the world.

All Expedition expenses are covered for Youth Ambassadors participating and all i2P Experiential Learning Programs are delivered **free of charge to schools and students around the globe.**
