



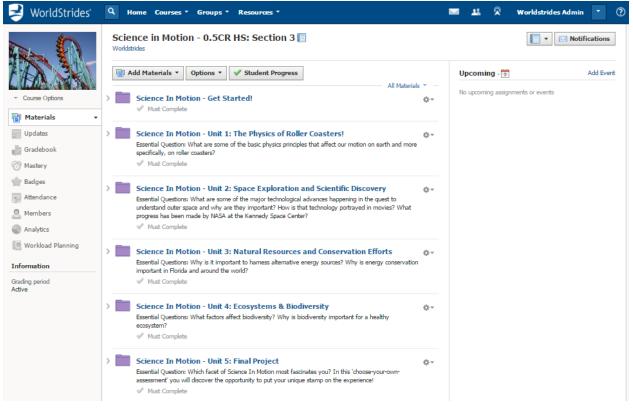
# WorldStrides Science in Motion 0.5 CR HS – Course Preview

*This resource has been prepared as a 'sneak preview' of the online course. Please contact the Curriculum and Academics Team at <u>discovery@worldstrides.org</u> with any questions!* 

# **Course Introduction/Overview**

All courses open with student support about taking online courses, using internet resources responsibly, how to ask questions, and how assignments are graded. Students can message instructors directly within the learning management system and they receive personalized feedback on their work. Students can monitor their progress and access their own gradebook at any time.

#### Course Welcome Screen



## **Course Description**

In this course students will explore universal laws, concepts, and theories in physics and environmental science through the lens of their personal experiences and observations on their travel program. Students reflect on concepts, issues, and interests presented during the field portion of the program. They will engage in analysis and research to deepen their experience and understanding.



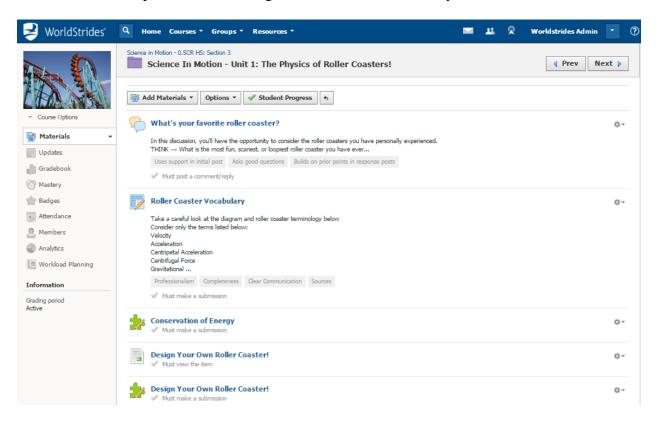




Students will investigate the role that energy plays in understanding motion, and also consider energy efficiencies, natural resources, and energy conservation. Students will examine different ecosystems and understand the importance of biodiversity.

#### **Course Sequence**

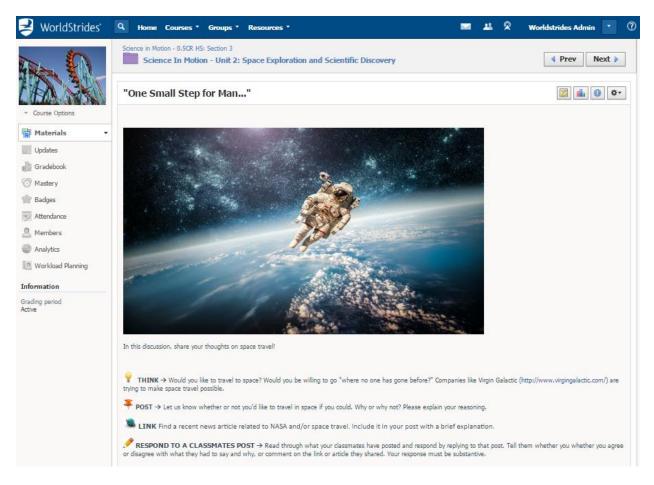
Each unit is made up of a series of assignments that are thematically related.











# Sample Online Discussion Board: Unit 2 – Space Exploration and Scientific Discovery "One Small Step for Man..."

## In this discussion, share your thoughts on space travel!

- **THINK** → Would you like to travel to space? Would you be willing to go "where no one has gone before?" Companies like Virgin Galactic are trying to make space travel possible. Did you observe any evidence of air pollution on your travel program? Be specific!
- **POST** → Let us know whether or not you'd like to travel in space if you could. Why or why not? Please explain your reasoning.
- LINK → Find a recent news article related to NASA and/or space travel. Include it in your post with a brief explanation.
- **RESPOND TO A CLASSMATES POST** → Read through what your classmates have posted and respond by replying to that post. Tell them whether you whether you agree or disagree with what they had to say and why, or comment on the link or article they shared. Your response must be substantive.







🛃 WorldStrides'	Q Home Courses * Groups * Resources *	🔤 😃 🎗 Worldstrides Admin 🔹 🕅
	Science in Motion - 0.5CR HS: Section 3 Science In Motion - Unit 3: Natural Resources and Conservation Efforts	Prev     Next
	Reflecting on Renewable Resources	🔀 💼 🕘 🌣
<ul> <li>Course Options</li> </ul>		Submissions & Received (0/5) *
📑 Materials 🔹		No users match the selected filter.
Updates	Performance Provided and the US Department of Energy's website and the Alternative Energy News website included in this folder. Conduct some research on one of the following renewable energy sources:	
Gradebook		
💮 Mastery		
👚 Badges		
Mattendance		
🚨 Members		
Analytics		
🔝 Workload Planning	Wind Energy	
Information	Geothermal Energy     Hydropower     Biomass Energy	
Grading period		
Active	$\widehat{\mathbb{P}}^{CONSIDER}$ $ o$ The following questions as you investigate your chosen renewable energy resource:	
	<ul> <li>What are the advantages of this form of renewable energy?</li> <li>What are the disadvantages of this form of renewable energy?</li> <li>What are the infrastructure challenges that come with the implementation this form of renewable energy?</li> <li>What are the economic challenges and/or advantages that come with the implementation this form of renewable energy?</li> <li>What are the economic challenges and/or advantages that come with the implementation this form of renewable energy?</li> <li>How does this form of renewable energy compare to fossil fuels and other renewable energy sources?</li> </ul>	

# Sample Assignment: Unit 3 – Natural Resources and Conservation Efforts "Reflecting on Renewable Resources"

**RESEARCH**  $\rightarrow$  Take a look at the US Department of Energy's website and the Alternative Energy News website included in this folder. Conduct some research on one of the following renewable energy sources:

- Solar Energy
- Wind Energy
- Geothermal Energy
- Hydropower
- Biomass Energy

**CONSIDER**  $\rightarrow$  The following questions as you investigate your chosen renewable energy resource:

- What are the advantages of this form of renewable energy?
- What are the disadvantages of this form of renewable energy?
- What are the infrastructure challenges that come with the implementation this form of renewable energy?
- What are the economic challenges and/or advantages that come with the implementation this form of renewable energy?
- How does this form of renewable energy compare to fossil fuels and other renewable energy sources?







# $\textbf{CHOOSE} \rightarrow \textbf{One} \text{ of the following options for this assignment:}$

# **Option 1:**

Create a presentation (powerpoint, Google slides, or Prezi) that effectively addresses the questions listed above.

# **Option 2:**

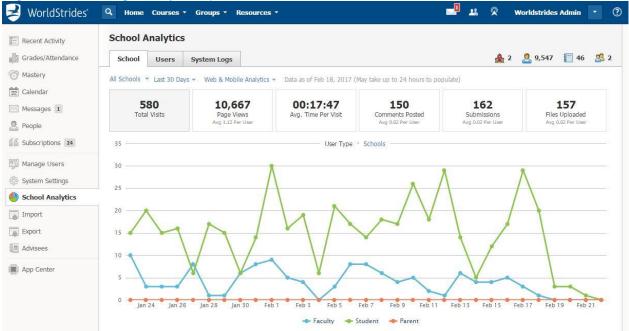
Write a well-developed, 4-5 paragraph expository essay that effectively addresses the questions listed above.

# **Further Information**

#### Course Analytics

Our program's curriculum development is anchored in data-driven continuous improvement. Our learning management system features data analytics to inform our course development process.

## Representative Snapshot of Analytics



# **Frequently Asked Questions**

## 1. Is this course pass/fail or graded?

All WorldStrides courses follow a traditional 10-point grading scale. WorldStrides Curriculum and Academics does not send transcripts to students who earn a grade below a C.

- A = 90-100%
- B = 80-89%
- C = 70-79%
- D = 60-69%

Grades 59 or below will result in failure.







# 2. How long does it take to complete the work?

Students are free to work at a pace that is most comfortable to them. Courses expire six months from the return date of travel.

# 3. Is there a penalty if I don't finish the course?

No worries! If a student is unable to complete the work, no grade will be assigned and no transcript will be generated.

# 4. How do I ask the instructors questions?

Students can click on the envelope at the top right corner of the learning management system to send a message to WorldStrides Admin. We'll respond as quickly as possible!

# **Instructor Bios**

Wendy W. Amato is the VP of Curriculum and Academics at WorldStrides. She holds a Ph.D. in Curriculum and Instruction and has research interests in culturally congruent pedagogy. Dr. Amato is an International Baccalaureate certified instructor and also serves as adjunct faculty at the University of Virginia where she teaches Education Across Cultures. Her work experience includes school administration and teaching in the United States and France.
Kiersten Teitelbaum serves as an Associate Director of Curriculum and Academics for WorldStrides. She holds an M. Ed. in the Social Foundations of Education and has research interests in increasing healthy eating and physical activity for at-risk students in the United States. Her background includes coaching and serving as a course facilitator in an environmental education challenge course. Ms. Teitelbaum has provided professional development to teachers in Canada, Spain, and across the United States.
Carrie Weber serves as a Curriculum and Academics Specialist for WorldStrides. She holds an M. Ed. in Secondary Science Education and has taught middle school and high school students. Her research interests are focused on field experiences to facilitate better understanding of science. Ms. Weber is certified and licensed in multiple states and holds College Board AP Environmental Science certification.
Randi Kessler Chapman serves as a Curriculum and Academics Specialist for WorldStrides. She holds an M.T. in Secondary English Education and BS in journalism, with an emphasis on public relations. In addition to her entrepreneurial experience launching an independent business, Ms. Chapman brings eight years of classroom teaching expertise and works tirelessly to increase the accessibility of meaningful professional development to educators around the world.

