



**DREAM FLIGHT  
ADVENTURES**

*Inspiring the world to think and dream*

# **Enrichment Materials**

*Resources for deeper inquiry and advanced students*

*We ignite imaginations, blur the line between entertainment and education, and let dreams take flight.*



The following third-party resources are recommended as enrichment materials for gifted or advanced students.

## World War I History

### Videos

History.com — U-Boats Sink the Lusitania in 1915

<http://www.history.com/topics/lusitania/videos#u-boats-sink-the-lusitania-in-1915>

Student-made, BrainPOP-inspired video by 4th & 5th graders from Port Orange, Florida

[http://www.brainpop.com/video\\_tutorials/lusitania/](http://www.brainpop.com/video_tutorials/lusitania/)

### Websites

PBS.org — Court of Inquiry into The Lusitania Sinking

[http://www.pbs.org/lostliners/t\\_blame.html](http://www.pbs.org/lostliners/t_blame.html)

Quiz Game — Death Ship: The Lusitania

<http://www.funtrivia.com/trivia-quiz/World/Death-Ship---The-Lusitania-149466.html>

### Additional Instructor Resources

Lusitania Inquiry Lesson Plan

<http://academics.uww.edu/cni/degrees/secnded/ss/plan/10/docs/Inquiry%20Lesson%20Plan%20-Lusitania.pdf>

Inquiry Lesson: Why Did the United States Enter World War I?

<http://academics.uww.edu/cni/degrees/secnded/ss/plan/10/docs/Inquiry%20Lesson%20Plan-Why%20Did%20the%20United%20States%20Enter%20World%20War%20I.pdf>



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## **Marine Biology**

### **Videos**

MarineBio Ocean Channel

<http://marinebio.org/gallery/video/#.UN8l64njm1N>

Animal Planet: Best of Ocean Life

<http://animal.discovery.com/tv-shows/wild-kingdom/videos/wild-kingdom-ocean-life.htm>

### **Websites**

NeoK12: Presentations, puzzles, quiz games, and videos about marine animals

<http://www.neok12.com/Marine-Animals.htm>

Discovery.com — Blue Planet videos, puzzles, news, and sea maps

<http://dsc.discovery.com/tv/blue-planet/blue-planet.html>

National Geographic: Ocean Life

<http://ocean.nationalgeographic.com/ocean/ocean-life/>

### **Additional Instructor Resources**

National Geographic: Education — Are Sharks As Dangerous As We Think They Are?

[http://education.nationalgeographic.com/archive/xpeditions/lessons/14/g35/dangershark.html?ar\\_a=1](http://education.nationalgeographic.com/archive/xpeditions/lessons/14/g35/dangershark.html?ar_a=1)

Marine Biology Lesson Plans

<http://www.ugglug.com/marinelessonplans.html>

University of Arizona: Marine Discovery K-12 lesson plans

<http://marinediscovery.arizona.edu/lessons.html>



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## **Metric Weights and Measures**

### **Videos**

Mammoth School: The Metric System

<http://www.youtube.com/watch?v=hnnCbgUSDvg>

Teaching Metric Conversions to Kids: Centimeter to Millimeter

[www.ehow.com/video\\_12219638\\_teaching-metric-conversions-kids-centimeter-millimeter.html](http://www.ehow.com/video_12219638_teaching-metric-conversions-kids-centimeter-millimeter.html)

NeoK12 videos: Measurements

<http://www.neok12.com/Measurements.htm>

### **Websites**

Gamequarium.org — Measurement and conversion games

[http://www.gamequarium.org/dir/Gamequarium/Math/Metric\\_System/](http://www.gamequarium.org/dir/Gamequarium/Math/Metric_System/)

OnlineMathLearning.com — Measurement games

<http://www.onlinemathlearning.com/measurement-games.html>

### **Additional Instructor Resources**

The Science Spot — Metric Mania Lesson Plans

<http://sciencespot.net/Pages/classmetric.html>

BetterLesson.com — Metric Conversion

<http://betterlesson.com/lesson/24919/metric-conversions>

Discovery Education: A Metric World

<http://www.discoveryeducation.com/teachers/free-lesson-plans/a-metric-world.cfm>



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## Sonar

### Videos

National Geographic: Scientists "See" Ocean Floor via Sonar

[video.nationalgeographic.com/video/news/environment-news/us-ocean-floor-mapping-vin/](http://video.nationalgeographic.com/video/news/environment-news/us-ocean-floor-mapping-vin/)

PBS Kids — Design Squad: Submarine Sonar

[http://pbskids.org/go/video/pid=j0F37yRleX8kTFd24c9pTqgZp\\_IALFXC](http://pbskids.org/go/video/pid=j0F37yRleX8kTFd24c9pTqgZp_IALFXC)

### Websites

EPA BOLDkids — Onboard Equipment

<http://www.epa.gov/boldkids/scienceonboard.html>

Exploratorium — How does sonar work?

<http://www.exploratorium.edu/theworld/sonar/sonar.html>

eHow — How does sonar work?

[http://www.ehow.com/how-does\\_4567005\\_sonar-work.html](http://www.ehow.com/how-does_4567005_sonar-work.html)

History of Sonar

[http://inventors.about.com/od/sstartinventions/a/sonar\\_history.htm](http://inventors.about.com/od/sstartinventions/a/sonar_history.htm)

### Additional Instructor Resources

Sonar Classroom Activities

[http://www.ehow.com/info\\_7879441\\_sonar-classroom-activities.html](http://www.ehow.com/info_7879441_sonar-classroom-activities.html)

US Navy Museum lesson plan — How Does Sonar Work? Mapping the Ocean Floor

[http://usnavymuseum.org/Education\\_LP0011.asp](http://usnavymuseum.org/Education_LP0011.asp)

NOAA — Side Scan Sonar lesson plan, grades 7-8

[oceanexplorer.noaa.gov/explorations/03portland/background/edu/media/portlandping.pdf](http://oceanexplorer.noaa.gov/explorations/03portland/background/edu/media/portlandping.pdf)



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## **Classic Literature: 20,000 Leagues Under the Sea**

### **Videos**

"20,000 Leagues Under the Sea" (1954) Trailer

<http://www.youtube.com/watch?v=Xhyuey4xU3Q>

### **Websites**

Study Guide: Twenty Thousand Leagues Under the Sea by Jules Verne

[http://thebestnotes.com/booknotes/20000\\_Leagues\\_Verne/  
Twenty\\_Thousand\\_Leagues\\_Under\\_The\\_Sea\\_Study\\_Guide02.html](http://thebestnotes.com/booknotes/20000_Leagues_Verne/Twenty_Thousand_Leagues_Under_The_Sea_Study_Guide02.html)

### **Additional Instructor Resources**

20,000 Leagues Under the Sea literature unit resources

<http://www.easyfunschool.com/20000LeaguesIntro.html>

## **Depth and Pressure**

### **Videos**

NASA Sci Files — Ocean Odyssey - Ocean Pressure

<http://www.youtube.com/watch?v=4HmGf4ch-S0>

### **Websites**

NOAA — Pressure increases with ocean depth

<http://oceanservice.noaa.gov/facts/pressure.html>



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## **Additional Instructor Resources**

Pressure Exploration Activity

[http://www.marine.ie/NR/rdonlyres/DFC2CF28-1E6C-43F0-BD5F-2F7890292A30/0/ELessonPlan\\_WhatisPressure.pdf](http://www.marine.ie/NR/rdonlyres/DFC2CF28-1E6C-43F0-BD5F-2F7890292A30/0/ELessonPlan_WhatisPressure.pdf)

BBC — Pressure Under Water activity plan

[http://downloads.bbc.co.uk/schools/teachers/bang/bang\\_tp\\_pressure\\_under\\_water.pdf](http://downloads.bbc.co.uk/schools/teachers/bang/bang_tp_pressure_under_water.pdf)

## **Turning Points in History**

### **Videos**

History's Turning Points documentary

<http://topdocumentaryfilms.com/historys-turning-points/>

### **Websites**

National Archives: Turning Points

<http://www.archives.gov/education/history-day/turning-points/index.html>

NASA: What Are Turning Points in History, and What Were They for the Space Age?

<http://history.nasa.gov/sp4801-chapter2.pdf>

## **Additional Instructor Resources**

Turning Points in American History lesson plans, by time period and grade level

[http://www.turningpointsinamericanhistory.org/lesson\\_categories.php](http://www.turningpointsinamericanhistory.org/lesson_categories.php)



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## **Oceanography**

### **Videos**

Assignment Discovery: Mathematics of an Ocean Wave

<http://videos.howstuffworks.com/science/oceanography-videos.htm>

Discovery News — Cool Jobs: Oceanographer

<http://news.discovery.com/videos/cool-jobs-cool-jobs-oceanographer.html>

### **Websites**

KidsKonnnect.com — Oceanography

<http://www.kidskonnnect.com/subjectindex/15-educational/science/93-oceanography.html>

Kids.gov — Oceanographer

<http://kids.usa.gov/watch-videos/videos/oceanographer/index.shtml>

Learning the Zones of the ocean using an oil spill

[http://marinediscovery.arizona.edu/lessons/brittle\\_stars/Templates/index.html](http://marinediscovery.arizona.edu/lessons/brittle_stars/Templates/index.html)

### **Additional Instructor Resources**

National Geographic Education — We're in Hot Water Now: Hydrothermal Vents

<http://kids.usa.gov/watch-videos/videos/oceanographer/index.shtml>