

Field Trip  
Carnegie Science Center  
*"Titanic"*

**Carnegie Science Center  
One Allegheny Avenue  
Pittsburgh, PA 15212  
412.237.3400**

This field trip site would be appropriate for grade levels K through 12, depending upon what aspects the class explores and how in depth the class explores various activities.

This specific field trip is arranged with fifth grade in mind.

**Preparation:**

Academic Purpose:

The purpose of this field trip is to enhance the knowledge of students through hands on experiences. The field trip will correspond with the intensive multi-subject unit that is occurring in the classroom. The students will interact with genuine artifacts, realistic models, and interactive simulations during their visit to the Carnegie Science Center's Titanic Exhibit.

Standards to be fulfilled:

**Academic Standards for Geography**

7.1 Basic Geographical Literacy

- 7.1.6. A. Describe geographical tools and their uses.
- 7.1.6. B. Describe and locate places and regions

## **Academic Standards for History**

### **8.1 Historical Analysis and Skills Development**

- 8.1.6. A. Understand chronological thinking and distinguish between past, present and future time.
- 8.1.6. B. Explain and analyze historical sources.
- 8.1.6. C. Explain the fundamentals of historical interpretations.
- 8.1.6. D. Describe and explain historical research.

### **Preparatory Questions:**

- What do we already know?
- What do we want to learn?
- What do we want to have clarified?
- How cold is an iceberg?
- Where was the Titanic hit?
- How far away was the rescue boat?
- How did the crew members communicate to get help?
- What did the S.O.S. message look like?
- How many people are alive today?

### **Field Trip:**

#### **Exhibits:**

The Titanic Exhibit will be explored the day of the students' field trip. The Carnegie Science Center has done an excellent job in tailoring many of their already existing features to enhance the Titanic experience for those visiting. The Titanic Exhibit features: a large model of the Titanic as it lies on the floor of the North Atlantic Ocean, artifacts taken from the ship during research dives, an interactive simulation that allows visitors to "maneuver" the ship, an Omnimax presentation of the ship's wreckage, along with other exciting activities.

Activities:

## **“Titanic Model”**

Location: *Titanic Exhibition Floor, Floor #*

On the Titanic Model students can experience what it was like to “maneuver” the ship before and during her collision with the iceberg.

## **“Artifacts”**

Location: *Titanic Exhibition Floor, Floor #*

Students can see fifteen actual artifacts taken from the Titanic wreckage. All artifacts are incased in glass, so there will be no hands on experience with the artifacts. The artifacts include:

## **“Virtual Reality Simulation Ride”**

Location: *Lower level by information desk*

Students will be able to experience the movement and sights of submerging into the deep depths of the North Atlantic Ocean. The Virtual Reality Simulation Ride has the capacity to seat

## **“Ghosts of the Abyss”**

Location: *Omnimax Theater*

James Cameron, director of *Titanic* the movie, will guide the students through the exploration of the wreckage of the Titanic. The Omnimax presentation submerses the students into a water world with a four story high domed screen and more than 50 high quality speakers. During the presentation, students will be guided through the entire ship, deck by deck. The underwater robots, who were designed especially for the Titanic dive, will encounter

mysteries that have remained hidden for almost a century. Also, the students will be able to listen to interviews from survivors of the Titanic.

## **“Chill Out”**

Location: *Special Kitchen Theater Show*

Grades K-4

“Discover the tasty physics that explains how water freezes and how the main ingredient in snow cones can make a ship sink.”

## **“USS Requin Submarine”**

Location: *Outside of the Carnegie Science Center in the*

As an extra bonus, students can take a walk through the USS Requin Submarine. The USS Requin Submarine was used from World War II to the Cold War and housed more than 80 crew members for months at a time.

### Take Home Items:

The only items that can be taken back to the school from this trip are pamphlets and other reading materials that are provided to all guests of the Carnegie Science Center.

### Limitations:

- *Large Groups:* There would be slight limitations with accommodating large groups in one area at a time in the Science Center. This could be resolved by having many parent chaperones, time schedules, and a very organized plan.
- I think that Science Center is well equipped for a variety of special needs students. There are ramps and elevators from floor to floor, instead of steps. The Omnimax is equipped for hearing impaired individuals and the Kitchen Theater has available spaces for wheelchair bound individuals. The only concern I would have would be the submarine. A student in a wheelchair

would not be able to enter into the submarine because of the narrow halls and entry ways. If I had a handicapped student I would not make the submarine a part of the field trip because I don't believe it would be fair to that student. If I did feel it was an important aspect of the trip I would have all of the students take a virtual field trip to the submarine on the Carnegie Science Center's website: <http://www.csc.clpgh.org/vRequin/subintro.asp>

**Extension:**

Follow Up Questions:

- If you were in charge of the Titanic exploration and you had the chance to resurface the Titanic would you? What would be your reasons for your actions? How do you think it would affect people today?
- Knowing what you know now of the Titanic do you think the people of the time rushed to set sail and ignored the warnings? Do you think the crash could have been prevented if they would have waited to set sail?

Enrichment:

***Plotting Locations of Icebergs.***

**Objective:**

Students will be able to locate key locations in order to understand the geography of the *Titanic* story.

**Procedure:**

1. Have students locate key locations in *Titanic's* story. Write the names on a map.

- Where it was built Belfast, Ireland
- Where the journey began Southampton, England
- First stop Cherbourg, France
- Second stop Queenstown, Ireland
- Where the iceberg formed West coast of Greenland
- Path of iceberg down the coast of Greenland, past Labrador
- Destination New York, USA

2. Have students plot the locations of the icebergs and ice fields reported to *Titanic* on April 14 using the student worksheet and map (attached).
3. Plot the location of *Titanic's* location using the location of the *Titanic* when it made its distress call and the final location of the wreck

### ***Researching the Lives of Titanic.***

#### **Objective:**

Students will read biographies and testimonies of *Titanic* survivors and be able to recognize that accounts of the tragedy vary from person to person.

#### **Materials for research:**

- "Encyclopedia Titanica" at <http://www.encyclopedia-titanica.org>.
- "Titanic Inquiry Project" at <http://www.titanicinquiry.org>
- *Story of the Titanic as Told by its Survivors*, Dover Publications, 1960
- *Titanic Voices: Memories from the Fateful Voyage* by Donald Hyslop, Alastair Forsyth, Sheila Jemima. 1994

#### **Procedure:**

1. Students will research one member of the *Titanic's* crew or a passenger from the *Titanic*.
2. Students will record information they find on an individual in report form.
3. Students will then orally present information found.
4. After all presentations, the students will have a group discussion about how the testimonies of the accident varied from person to person and why they think there was a variation.

#### **Suggested people to research:**

- Charles Lightoller, 2nd officer
- Dr. Washington Dodge
- Mrs. Ruth Dodge
- Harold Bride, Marconi radio operator
- Sir Cosmo Duff-Gordon, 1st class passenger

- Lady Lucille Duff-Gordon, 1st class passenger
- Frederick Fleet, lookout
- Robert Hichens, Quartermaster
- Masabumi Hosono, 2nd class passenger
- Bruce Ismay, president of White Star Line
- Major Arthur Peuchen, 1st class passenger
- Countess of Rothes, 1st class passenger
- John Thayer Jr., 17 year old 1st class passenger
- Frederick Barrett, leading stoker
- Augustus Weikman, ship's barber

**Questions to research:**

- What acts of heroism did any of these people do or witness?
- What acts of cowardice did any of these people do or witness?
- How did these people survive in the icy water?
- How did some men get on the lifeboats before all the women and children were off the boat? What incentive would a man have for lying about how he got into a lifeboat? (Bruce Ismay and Masabumi Hosono)

**Group Discussion Questions:**

- Do any of the testimonies contradict each other? (Robert Hichens and Major Peuchen)
- Do any of these testimonies talk about the same events with a different perspective? (Dr. and Mrs. Washington Dodge)



Dear Parents or Guardians,

As a part of our multidisciplinary unit on the Titanic the fifth grade will be taking a field trip to the Carnegie Science Center on November 12, 2004. The bus will leave the school at 9:00am and will return before dismissal time (3:30pm). Your child will be able to arrive at school and return home on his/her normal bus.

Students will take part of an in depth guided tour of the Carnegie Science Center's Titanic exhibit. After the tour students will eat lunch and then watch a presentation in the Omnimax Theater about the exploration of the sunken Titanic. This is sure to be a fun and educational field trip.

You may pack a nonperishable lunch for your child or the school will provide one for him/her. All lunches should be in a paper bag with your child's name clearly marked on the front. (Please no glass containers or cans). Each child is allowed to bring a maximum of ten dollars for the gift shop, but the student will be responsible for his/her own money.

If you are interested in being a chaperone for our trip please indicate so at the bottom of this form.

Our trip will be exciting and educational for all who attend!

Sincerely,

Miss Koschik

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Please fill in and have your child return this to me by **November 1, 2004**.

☐ Yes, I give permission for my child to visit the Carnegie Science Center on November 12 with the fifth grade.

☐ No, my child may not attend this field trip.

☐ Yes, my child may attend and I would like to be a chaperone. My name is \_\_\_\_\_ and my daytime telephone number is \_\_\_\_\_.

Parent's Signature: \_\_\_\_\_

# Science Center Agenda:

	Group A	Group B
9:00	Depart from school	
10:00	Arrive at Science Center: Group with tour guides	
10:00	Omnimax Presentation	Omnimax Presentation
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11:00		
11:00	Submarine Tour	Titanic Exhibit
-		
12:00		
12:00	Lunch	Lunch
-		
12:30		
12:30	"Chill Out" Kitchen Show Theater	"Chill Out" Kitchen Show Theater
-		
1:00		
1:00	Titanic Exhibit	Submarine Tour
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2:00		
2:00	Load Buses for departure	