

**Becoming a Voyage Community
Useful Links of Interest**

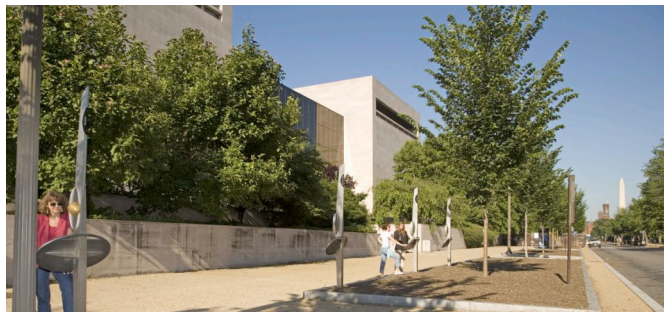
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Introduction:

On a visit to the National Mall in Washington, DC, one can see monuments of a nation—Memorials to Lincoln, Jefferson, and WWII, the Vietnam Veterans Memorial Wall, and the Washington Monument. Standing among them is *Voyage*—a one to 10-billion scale model of our Solar System—spanning 2,000 feet from the National Air and Space Museum to the Smithsonian Castle (visit <http://voyagesolarsystem.org>.)



The *Voyage* scale model Solar System on the National Mall in Washington, DC. The National Center for Earth and Space Science Education is making replicas available for permanent installation in communities world-wide.

Voyage celebrates what we know about Earth’s place in space and our ability to know it. It reveals the true nature of humanity’s existence—six billion souls occupying a tiny, fragile, beautiful world in a vast space. It uses the remarkable power of models to develop a deep conceptual understanding of our world and the greater Universe (http://voyagesolarsystem.org/DC/DC_models_power.html.)

A seamless fusion of sculpture and science education, *Voyage* was created in partnership with the Challenger Center for Space Science Education, the Smithsonian Institution, and NASA, and was approved by the U.S. Commission of Fine Arts and the National Capital Planning Commission for permanent placement on the National Mall.

Voyage is an exhibition that speaks to all humanity. The National Center for Earth and Space Science Education (NCESSE; <http://ncesse.org/overview>) is therefore making replicas of *Voyage* available for permanent installation in communities world-wide.

The Learning Community Model:

The *Voyage* exhibition was designed to be embedded in community-wide programming for grade K-12 students, teachers, families, and the general public, and supported by a suite of educational materials. The programming and educational materials are assets of NCESSE’s *Journey through the Universe* program. Some of these assets are provided with the exhibition at no additional cost, e.g., the grade K-12 lessons, and the two programs associated with opening event activities—a professional development workshop for educators and a family/public program. The *Voyage* community can also supplement the assets provided with the exhibition with other *Journey through the Universe* programs and educational materials on a cost recovery basis.

Specific Links of Interest:

The list of specific links below allows a prospective *Voyage Community* to understand the capabilities of both the *Voyage* exhibition and the community-wide programming that can be implemented. The URLs below reflect very specific topics of interest. These URLs are just some of the pages at the *Voyage National Program* website <http://voyagesolarsystem.org>, and the *Journey through the Universe* program web site at <http://journeythroughtheuniverse.org>.

These links will provide ideas for putting the exhibition to work with programming, and provide content connections to not just space science but to science education paradigms, *e.g.*, the use of models for learning.

Using this Document:

Open this PDF document on your computer and the links below will be active. You can then selectively explore any area of interest by clicking on the relevant link and you will be automatically routed to that web page. If your document does not allow active linking, let us know.

LINKS TO EVERYTHING VOYAGE

I. Overviews

1. The *Voyage National Program*
http://voyagesolarsystem.org/program/program_default.html
2. Discover the Universe: The Content Focus for the Exhibition and Programming
READ THIS TO BE BOTH HUMBLLED AND INSPIRED
http://voyagesolarsystem.org/DC/DC_story_home.html
3. The National Mall, and National Air and Space Museum—the site of *Voyage* in DC
SOME MAGICAL INSIGHT INTO WHY PEOPLE VISIT THE NATION’S CAPITAL
http://voyagesolarsystem.org/DC/DC_story_mall.html
4. The Exhibition
http://voyagesolarsystem.org/exhibition/ex_default.html
Explore the sub-pages in the navigation column at the left for descriptions of: the experience, design, storyboards, and sample storylines and imagery.
5. Exhibition Testimonials
http://voyagesolarsystem.org/community/community_testimonials.html
6. An Overview of Community-wide *Journey through the Universe* Programming
http://journeythroughtheuniverse.org/home/home_default.html
7. Programming Testimonials
FROM SCHOOL DISTRICT SUPERINTENDENTS, SCIENCE CURRICULUM SUPERVISORS, AND OTHER COMMUNITY LEADERS
http://journeythroughtheuniverse.org/testimonials/te_default.html

8. How *Voyage and Journey* Address National Need in STEM Education, Standards, and NCLB
http://journeythroughtheuniverse.org/program_overview/po_nago.html
9. National Center for Earth and Space Science Education
<http://ncesse.org/overview>

II. Ideas for Putting the Exhibition to Work in Your Community

1. Case for Siting the Exhibition Near a Museum or Science Center, **lots of programming ideas:**
http://voyagesolarsystem.org/rallying/rallying_museum.html
2. **Also likely useful**—Case for Siting the Exhibition on a University Campus, **lots of other programming ideas:** http://voyagesolarsystem.org/rallying/rallying_university.html

III. Important Exhibition and Program Learning Models and Design Approaches

1. The Learning Community Model Embraced by the Exhibition and the Related Programming
http://journeythroughtheuniverse.org/lc_model/lcm_default.html
2. The Use of Modeling Across the Exhibition and Educational Materials
http://voyagesolarsystem.org/DC/DC_models.html
3. The Deeper Educational Paradigm—the Power of Models in Science and Science Education
SOMETHING EVERY TEACHER OF SCIENCE SHOULD READ
http://voyagesolarsystem.org/DC/DC_models_power.html
4. Programming Pedagogy: the nature of science, scientist as hero, *inspire...then educate*
SOMETHING EVERY TEACHER OF SCIENCE SHOULD READ
http://journeythroughtheuniverse.org/program_overview/po_pe.html

IV. Programs and Educational Materials

1. Overview of *Voyage* Exhibition Education Materials
http://voyagesolarsystem.org/education/ed_pedagogy.html
2. Complete Package of Downloadable Grade K-12 Lessons, and Assembling a Notebook
PLACES AN EXHIBITION TOUR WITHIN A MULTI-WEEK CLASSROOM EXPERIENCE GEARED TO YOUR CURRICULUM
<http://voyagesolarsystem.org/lessons>

3. Outdoor Exploration Guide (tour brochure), providing visitor orientation, touring, and other relevant information; and facilitating use of the exhibition as a laboratory for inquiry-based exploration as part of a tour, whether it is self-guided or led by a teacher or docent.

The Guide for the National Mall:

http://voyagesolarsystem.org/downloads/voyage_guide.pdf

Guides for other *Voyage Communities* are available on request.

4. The Professional Development Workshop: objectives, roles and responsibilities
http://journeythroughtheuniverse.org/program_overview/po_pr.html
5. Assessment data for Professional Development Workshops
http://journeythroughtheuniverse.org/program_overview/po_as_ew.html
6. The Family/Public Program: objectives, roles and responsibilities
http://journeythroughtheuniverse.org/program_overview/po_fpp.html
7. Assessment Data for Family/Public Programs
http://journeythroughtheuniverse.org/program_overview/po_as_fapp.html
8. Student Programs by National Teams of Scientists and Engineers
http://journeythroughtheuniverse.org/program_overview/po_cv.html
9. Assessment Data for Student Programs
http://journeythroughtheuniverse.org/program_overview/po_as_cv.html

