National Engineers Week

Future City Competition
Objectives

The Future City Competition is a national program that:

• Fosters an interest in all subject areas through hands-on, real world applications

• Holds its national finals during National Engineers Week, with students from across the country competing in Washington, D.C.

• Has 37 cities/regions across the country participating in this year’s competition
The competition has 4 integral components

- Phase I
  - Design the City
- Phase II
  - Essay and Abstract
- Phase III
  - Build the Model
- Phase IV
  - Verbal Presentation
Getting Started – who?

• Minimum of 3 students grades 6, 7 and/or 8 (public, private, parochial or home schools)
• 1 coach (teacher, curriculum coordinator, intervention specialist, etc.)
• 1 mentor engineer (may be any engineering field, we can help you find an engineer or you can use an engineer you know such as a parent)
Role of the Engineer, Teacher, and Students

- **Engineer:** mentor to the students; an advisor and provides input and technical assistance.

- **Teacher:** facilitator and advisor to the team members; signs off on forms; contact person for regionals

- **Students:** the actual creators of their future city, with the help and advice from their volunteer engineer and teacher.
Getting Started – who/how much?

• have 1 team or multiple teams, up to 10 teams per school permitted in the NYC Region
• use the materials for your own in-school needs/deadlines OR use as an academic competition
• $25 registration fee is covered by our sponsors in the NYC region
Getting Started – where/when?

- Within context of classroom(s) instruction-integration between subjects; standards based
- In-school enrichment or clubs
- Mentorship programs
- After-school programs or clubs
Timeline

**September:** Registration opens on-line ([www.futurecity.org](http://www.futurecity.org))

**October:**
- School registration deadline (typically October 15th)
- Engineer volunteers recruited to assist schools

**November:** City Map submission

**December:** Essay/Abstract Submission

**January:**
- Regional competition (3rd or 4th Saturday)

**February:**
Future City Competition, national finals, at the Hyatt Regency - Washington, DC
Phase I – Design the City

- **SimCity 4 Deluxe**
- Students act as the Mayor of their city incorporating zoning (commercial, residential, and industrial), water supply, power supply, crime levels, education levels, tax levels, transportation systems (buses, subways, roadways) and enacting laws and regulations.
- **Inventory – self scoring check (optional)**
- **Tutorial Video (CD-ROM)**
- **Scored on a rubric**
Phase II – Essay & Abstract

- Essay is scored on a rubric, see national website for scoring requirements
- Essay topic is changed each year – for a specific engineering problem
- The students research the topic and develop a solution to the issue raised in the topic
- Abstract required also – describing key aspects of the city and the strategy they employed in developing their city
Phase III – Build the Model

- Follow Handbook Guidelines
  (see pdf version of teacher handbook on line at http://www.futurecity.org/resources_handbook.shtm)
- Model Built to Scale
- Use Recycled Materials
- Moving Part
Phase IV – Verbal Presentation

• 5-7 minute long Student Presentation
• Followed by Questions from Judge Panel
• Handbook has Sample Questions
The Future City Competition allows students to:

• **Work as a team** under the guidance of a teacher and a practicing engineer mentor

• Use a popular award-winning computer game, *SimCity* to design their future city.

• **Build a scale model** of a section of their city.

• Utilize their communication skills by preparing an abstract, an essay, and a verbal presentation relating their experience in the design of their city
Mission

The mission of the National Engineers Week Future City Competition™ is to provide a fun and exciting educational engineering program for seventh- and eighth-grade students that combines a stimulating engineering challenge with a “hands-on” application to present their vision of a city of the future.
Region/National Contact Info

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Regional Competition Location:
SONY Wonder Technology
Museum
55th and Madison, NYC

National Headquarters:
Future City Competition
1420 King Street
Alexandria, VA 22314
info@futurecity.org

1-877-636-9578

Regional Website:
http://futurecity.org/new-york-city
We Need You to Participate…

Photos from Past NYC Metro Regional Future City Competitions