INDIANA
future City
COMPETITION
Future City: Dreams Need Doing!

“Real World”

Project Based

Mentors
What is Future City?

Future City is an integrated, multidisciplinary, holistic approach to relevant issues and is a strong example of STEM (Science, Technology, Engineering, & Mathematics) education that addresses national and state academic content standards.

Plan
Design
Construct

Write
Present
Win!

2009 Indiana Regional Winners:
Leo Jr./Sr. High School
National Future City

- **1992**: Developed by National Engineers Week Committee
- **2007**: Volunteers of the Year by Points of Light Foundation
- **2007**: Receives Seal of Approval for Contest Listings by the National Association of Secondary School Principals
- **2010**: 40 Regions
- **2012**: New National website
- Estimated 290,000 Students and Teachers have participated nationally since inception
- Yearly average: 33,000 students
**Future City Teams**

**Only Schools Register Teams**

**A Team = 3 Students, 1 Teacher, 1 Mentor**

What grade are team members and how many teams per school?

6th, 7th & 8th grade

3 teams per school

“*This competition validates areas of excellence generally marginalized in middle school.*”

-Teacher Survey Comment

2002 Regional Winners:

Shawnee Middle School

Can more than 3 students work on the project?

Yes, a club or class can work on multiple projects; however, only three teams can participate in the regional event with three students per team as “official” presenters. Other students may attend as observers. Future City is being used as a project within enriched, gifted, science, social studies, and technology classes.
Future City Educational Outcomes

• Learn about a variety of careers.

• Learn about cities:
  • Design necessary city features
  • Infrastructure and services
  • Interdependence of technology, industry, commerce

• Learn to use technology as a design tool.

• Practice project management.

• Improve communication skills.

• Learn about the yearly theme.

• Practice math skills in model building.

• Demonstrate creativity and artistry.

• Work as a problem solving team.

2002 Indiana Team with Raytheon Engineer-Mentor
Choosing the Regional Winner: Competition Components/Scoring

- Virtual City Design 60
- City Model Building 90
- Essay 60
- City Narrative 20
- Presentation 60

TOTAL: 290 Points

2009 Regional Winners: Leo Jr./Sr. High School
Indiana Future City Regional Winners Advance to National Finals in Crystal City near Washington, D.C. in February

2012
Indiana Regional Winners
Woodside Middle School, Fort Wayne
Competition Element: Virtual City Design

Date of On Line Submission at National Future City website: Dec. 18, 2013 by 5:00 pm
Sim City 4: upload to website with form page 19
New Sim City: provide Origin user name and password on form page 19
See Teacher Handbook for scoring deductions page 15
: Judges will follow rubric: pg. 16-18

**SIMCITY:**

*Tutorial power point on national website: [www.futurecity.org/resources](http://www.futurecity.org/resources)*
*STEM Learning Block: Intro. To City Planning*
*SimCity 4 Use pre-designed medium region*
*New SimCity: use Whitewater Valley Region*
*City must have population of at least 50,000*
*Life expectancy over 70 years*
*Education Quotient greater than 120*
*Download directions [www.futurecity.org/resources](http://www.futurecity.org/resources)*

City Maps Show:

- **Zoning: City Layout**
- **City Infrastructure:**
  - Roadways
  - Utilities
  - Water and Sewer
- **Vital City Features:**
  - Safety: fire, police, medical
  - Recreational features
  - Educational facilities
- **Balancing City Needs:**
  - Pollution levels
  - Power supply
  - Budget
  - Population
Competition Element: Essay and City Narrative
Submission: January 9, 2013 by 5:00 pm (EST) uploaded to National Future City. Include the Essay and City Narrative Forms: pg. 30 and 34
Judges use rubric: pgs. 28-29 (Essay) and 33 (City Narrative)

Essay (60 points)
Maximum: 1000 word essay (does not include title and bibliography but does include picture captions)
3 sources of info. in Bibliography using the MLA format (Modern language Association) No Wikipedia accepted.
10 point deduction for exceeding word count

2014 Research Theme:
Tomorrow’s Transit: design a way to move people and around your city. Key points: Accessibility, Intermodality, Sustainability

City Narrative (20 points)
Maximum: 500 words (not including title)
Provides a written description of key city features and attributes
Competition Element: The Model

Name your city a creative name that captures the essence of your team’s ideas about their future city.

**Models (90 points) Model Requirements:**

- No vertical models; new model every year
- 4 X 6 Model Identification Card with city name, scale, organization, presenters, teacher, mentor (5 pt deduction)
- Follow size requirements (15 pt deduction):
  - 25”(W) x 50”(L) x 20”(H)
  - Built to scale & proportion
- One moving part: electrical power must be self-contained within model dimensions
- Primarily use recycled items
- Cannot exceed $100 for all elements of the project combined
- **DUE ON DAY OF COMPETITION:** Record expenses on the expense form in the handbook; see page 41 (form) 42 (Instructions)
All models look different!
Judges use rubric: pg. 39-41

The model will be judged on the following criteria:

a. Creativity  
b. Quality and Scale  
c. City Design  
d. Moving Part(s)  
e. Recycled Materials  

TOTAL: 90 POINTS
Competition Element: The Presentation (60 pts)
Judges use rubric: pgs. 46-47

Teams display their models and describe their city to judges.
Presentation time: Cannot exceed 7 min. followed by 5 minutes of judge questions

Visual Aids can be: flip charts, foam boards, posters on easels.
Size Rules: Single display 60”(W) x36”(H)
      Double display each 30”x36”
Props must fit in a 6x6x12 ” box
Brochures: limited to one 8.5 X 11 sheet of paper
The Regional Finals

5 Teams Representing 5 Different Schools Compete in a Final Round before Distinguished Judges and all participants.
2014 Future City Competition

Regional Recognition and Awards

- Participation gifts for participants
- Medals to finalists
- Trophy to First Place
- Cash awards to top five teams
- Educators each receive a monetary participation award for attending regional with the team
- Special Awards for many teams
National Future City Competition

Regional Winners sometimes have the opportunity to meet Indiana officials when in Washington, D.C. during Engineers Week!
Review of Deadlines

- School registration: October 31, 2013
- Virtual City Design Submission: Dec. 18, 2013
- Team registration: Dec. 18 2013
- Essay Submission: January 9, 2014
- Regional Event: January 18, 2014
- National Event: Engineers Week

LATE SUBMISSIONS SUBJECT TO PENALTIES
Points Possible: 290,
Review Score Sheet Summary for Deductions
Indiana Future City Competition
Date: January 18, 2014

Snow Date: January 25, 2014

Contact Information:
Carol Dostal, Coordinator
College of Engineering, Technology, Computer Science
IPFW Office: 481-6905
dostalc@ipfw.edu