Future City: Dreams Need Doing!

“Real World”

Project Based

Mentors
Established in 1992-1993
1,350 middle schools
225,000 volunteer hours
39 regions across the country
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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 Common core, state academic content standards, and 21st Century Skills.

Plan
Design
Construct

Write
Present
Win!

2009 Indiana Regional Winners:
Leo Jr./Sr. High School
Getting Started ➔
Register team(s), learn about team formats, find a mentor, review the calendar, & see a planning timeline.

Design the Virtual City ➔
Use the provided SimCity software to design a virtual city of the future.

Write the Research Essay ➔
Feeding Future Cities Select one vegetable and one protein and design a way to grow enough of each within your future city limits to feed your citizens.

Write the City Narrative ➔
Describe your city and its key design attributes.

Build the Model ➔
Build a physical model of your city using recycled materials.

Team Presentation ➔
Show your city to a panel of judges at the Future City competition.
Future City Teams

Schools & Nationally-Recognized/Approved Youth Organizations can 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

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.

“This competition validates areas of excellence generally marginalized in middle school.”
-Teacher Survey Comment

2002 Regional Winners:
Shawnee Middle School
### 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 engineering design process.
- Improve communication skills.
- Learn about the yearly theme.
- Practice math skills in model building.
- Demonstrate creativity and artistry.
- Improve 21st Century skills: problem solving, critical thinking, teamwork, and project management
Choosing the Regional Winner:

Competition Components/Scoring: **NEW**!

- Virtual City Design: 60
- City Model Building: 70 (change from 90)
- Essay: 60
- City Narrative: 20
- Presentation: 70 (change from 60)

**TOTAL:** 280 (change from 290)

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

2011 Indiana Regional Winners
Blackhawk Middle School,
Fort Wayne
(Example of a team that can be comprised of more than just the official 3 students. Regional winning teachers have raised money for additional students to attend National Finals)

2014 Indiana Regional Winners
Woodside Middle School,
Fort Wayne
(Example of how schools can generate media coverage through their participation (yes...even schools who are not the regional winners can get coverage in their local papers)
Virtual City Design

- Worth up to 60 points
- Use SimCity software and Whitewater Valley region
- Learn what goes into planning and maintaining a city
- Meet a number of population, utility and development benchmarks
Competition Element: Virtual City Design

Date of On Line Submission at National Future City website: Dec. 17, 2014 by 5:00 pm
Provide Origin user name and password when submitting
See Teacher Handbook for scoring deductions page 15
Judges will follow rubric: pg. 16-18

**SIMCITY:**

*www.futurecity.org/resources*

- STEM Learning Block: Intro. To City Planning
- Whitewater Valley Region: 5 cities are in this region. Your team can develop more than one but only one will be judged and must have the name of your team
- Create in single player mode
- City reaches Level 5: you need population of 37,000 to reach that level
- Have all 3 types of development: residential, commercial, industrial
- Have adequate safety services: number of crimes, buildings burned, and deaths is 0
- City utilities are all in the “Green”
- Education level is at least 3
- Sims use your public transportation
- Select a meaningful name that will be submitted with SimCity and will go on ALL your other team documents
Feeding Future Cities Essay Topic

• Worth up to 60 points
• Select one vegetable and one protein and design a way to grow enough of each within city limits to feed your citizens
• 1,000 words or less
• Research process is structured to follow engineering design process
Competition Element: Essay and City Narrative
Submission: January 15, 2015 by 5:00 pm (EST) uploaded to National Future City Directions for upload will be emailed to teacher before submission date. Judges use rubric: pgs. 28-29 (Essay) and 32 (City Narrative)

**Essay (60 points)**
- **Maximum:** 1000 word essay (does not include title and bibliography but does include picture captions)
- **Word count at end of essay**
- **3 sources of info.** in Bibliography using the MLA format (Modern language Association) No Wikipedia accepted.
- **Note deductions:** page 26

**City Narrative (20 points)**
- **Maximum:** 500 words (not including title)

Provides a written description of key city features and attributes
- **Note deductions:** page 31
Competition Element: The Model

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

Models (70 points) Model Requirements:
Handbook page 35

- 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 39 (form) 40 (Instructions)
All models look different!
Judges use rubric: pg. 36-38; scoring deductions page 35

The model will be judged on the following criteria:

a. City Design
b. Quality and Scale
d. Materials and Moving Part(s)
e. Judge assessment of model

TOTAL: 70 POINTS
Team Presentation

- Worth up to 70 points
- Present city to a panel of judges
- Props can include display boards, costumes, handouts
- Field questions from judges
Competition Element: The Presentation (70 pts)
Judges use rubric: pgs. 44-47

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.
• Winning Team from each Region advances to National Finals in Washington, DC
• Teams receive free airfare and hotel accommodation
2015 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
Resources

1. Educator Handbook
2. SimCity Software
3. Guiding Questions
4. Learning Blocks
5. Assessment Rubrics
6. Tips & Resources
7. Regional Trainings
8. Online Webinars
9. Regional Resources
National Future City Competition

2014 Regional Winners:
Woodside Middle School, Fort Wayne
Review of Deadlines

- School registration: October 31, 2014
- Virtual City Design Submission: Dec. 17, 2014
- Team registration: Dec. 17, 2014
- Essay Submission: January 15, 2015
- Regional Event: January 24, 2015
- National Event: Engineers Week

LATE SUBMISSIONS SUBJECT TO PENALTIES
Points Possible: 280,
Review Score Sheet Summary for Deductions
QUESTIONS?

Indiana Future City Competition
Date: January 24, 2014

Snow Date: January 31, 2015

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