



# Future City – North Texas 2019-20 Orientation

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Regional Coordinator

[www.dfwfuturecity.org](http://www.dfwfuturecity.org)



# 4 Orientation Webinars

- This presentation covers
  - Information specific to the 2019-20 program
  - Information specific to the North Texas region
- Orientation Basics
  - Covers basic information about FCC
  - Rules, procedures
  - Deliverables
- Orientation – Regional Competition Event
  - Process and procedures for competition day
- Orientation – Model slideshow
  - Pictures of models from regional and national competitions



# Agenda

- Where to find answers
- New this year
  - Essay topic
  - Rules changes
- NTX Region 2019-20
  - Specific rules and guidelines
  - Resources
  - Timeline
  - Participating schools, organizations

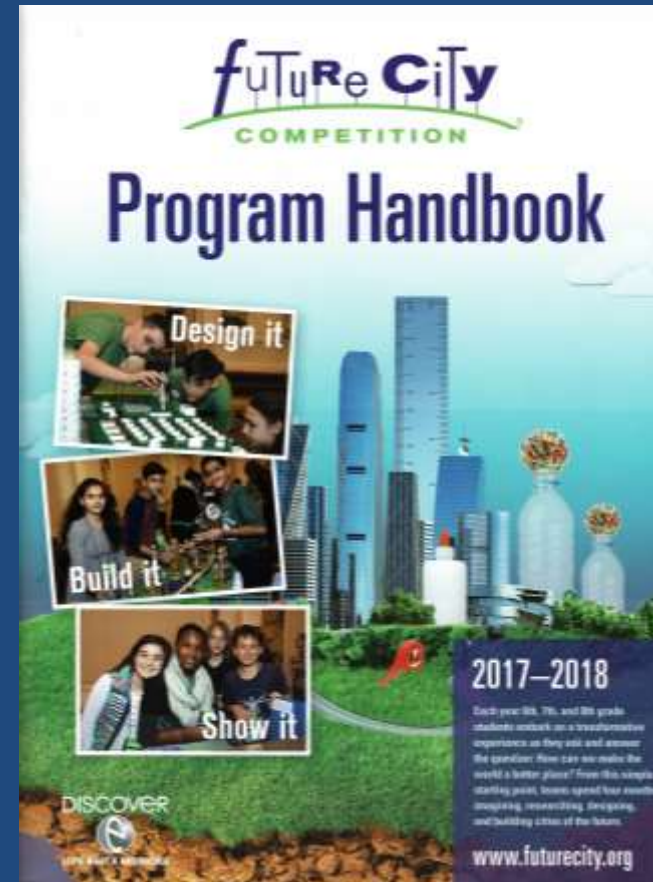


# Where to Find the Answers



# Program Handbook

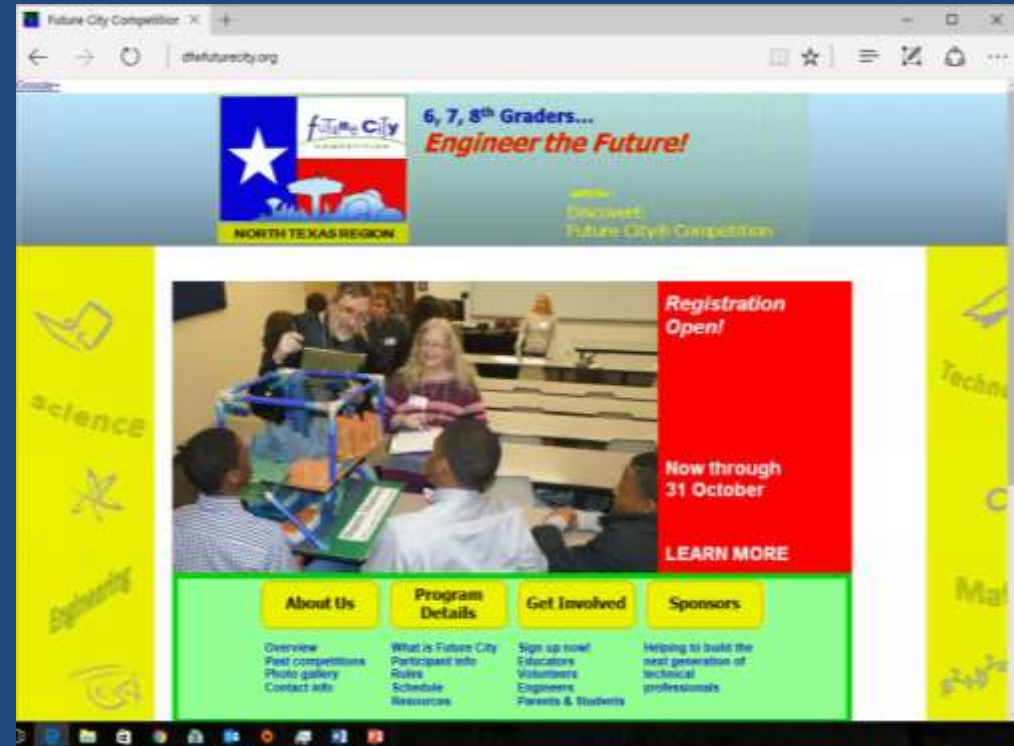
- Program Handbook
  - Rules
  - Teaching points
  - Background information
  - Rubrics
  - Forms
- Download from <http://futurecity.org>





# Two Websites: NTX Region, National

- NTX Regional  
[www.dfwfuturecity.org](http://www.dfwfuturecity.org)
  - Region-specific info
  - Schedule, due dates
  - Local resources
  - Program updates





# FC NTX Team Center

[www.dfwfuturecity.org/teamcenter.html](http://www.dfwfuturecity.org/teamcenter.html)

- Team Center – *Bookmark it!*
- First stop for all local information
  - Schedule, rules
  - Program updates
  - Resources

6, 7, 8<sup>th</sup> Graders...  
**Engineer the Future!**

**About Us**  
Overview, History, Photos

**Sponsors**  
Companies, Organizations, Individuals

**Program Details**  
Schedules, Resources, Rules

**Get Involved**  
Schools, Students, Engineers, Volunteers

**Team Center**

[Teacher Sign-In](#) [Mentor Sign-In](#)

**This secure site will:**

- Allow you to set up teams
  - Add and change members
- Allow you to upload deliverables
  - SimCity files and forms
  - Essays, Narratives and forms
- Automatically time-stamp deliverables
- Send acknowledgements for uploaded files
- Obtain detailed scoring reports

**Updates**

**What's Different This Year**

(Aug-13) Significant changes this year:

- You can use either SimCity 4 or the new SimCity game to build your virtual city. Select when you register.

**Team Center**

[Resources](#)

[NTX Schedule](#)

[NTX Rules](#)

[List of Schools](#)

[Team Center](#)

[Day-of Info](#)

**Email Updates**

**Email Archive**  
Check back later for updates

**Sign-up for Email Updates**  
Email updates for NTX Future City participants give you the latest information about the NTX program, including schedule, rules, deliverables, resources, and other need-to-know items. They are issued as necessary (about





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  - Program updates
  - Resources

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**PROGRAM DETAILS**  
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### Schedule Deadlines for 2018-19

<b>Thru 31 Oct</b> TBA	<b>Registration and fees</b> Training Webinars (see <a href="#">Updates</a> for details)
Sep-Oct	Initial project planning. Learn the specifications and set goals. Set Project Plan schedule. Begin collecting material and recyclables for model.
Oct-Nov	Develop initial city design. Test design using SimCity.
<b>16 Nov</b>	<b>Virtual City slideshow due</b> <ul style="list-style-type: none"><li>• Upload file (.pdf) through the <a href="#">Team Center</a>.</li><li>• You will need to have created your teams before you can upload your slideshow.</li><li>• Files received by deadline will avoid late penalties.</li><li>• Late submissions are allowed - see below for dates and penalties.</li></ul>
Nov-Dec	Begin essay research, write essay. Begin scale model design.
<b>30 Nov</b>	<b>City Essay (Essay) due</b> <ul style="list-style-type: none"><li>• Submit in electronic format - common word processing document format such as: doc (not .pdf)</li><li>• Upload files through the <a href="#">Team Center</a>.</li><li>• Files received by deadline will avoid late penalties.</li><li>• Late submissions are allowed - see below for dates and penalties.</li></ul>
Dec-Jan	Continue model design and construction. Final City Presentations

**Team Center**

- Resources
- NTX Schedule
- NTX Rules
- List of Schools
- Team Center
- Day-of Info





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  - Schedule, rules
  - Program updates
  - **Resources**

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**Resources**

1. [Manuals](#)
2. [Competition Forms](#)
3. [Letter to Parents](#)
4. [Orientation Workshop Materials](#)
5. [Mentor Information](#)
6. [SimCity Resources](#)
7. [Lessons Learned](#)
8. [List of Penalties](#)
9. [Where to Learn More](#)  
about Essay Research, City Planning, Model Building, Engineering and more.

**Team Center**

- Resources
- [NTX Schedule](#)
- [NTX Rules](#)
- [List of Schools](#)
- [Team Center](#)
- [Day-of-Info](#)

**Manuals**



# Enrolling Teams in the Team Center

[www.dfwfuturecity.org/teamcenter.html](http://www.dfwfuturecity.org/teamcenter.html)

- Team Center – *Bookmark it!*
  - First stop for all local information
    - Schedule, rules
    - Program updates
    - Resources
- Create and manage teams
  - Assign team members
  - Submit deliverables
    - Automatic confirmation of submission
  - Download team scores
    - Available after the competition

6, 7, 8<sup>th</sup> Graders...  
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**Team Center**

**Team Center**

[Resources](#)

[NTX Schedule](#)

[Teacher Sign-In](#) [Mentor Sign-In](#)

https://www.dfwfuturecity.org/Teacher/teachers/home

future City COMPETITION

Teachers Home Page (closed - click to cancel) Edit Logout

Education Pages Team Information Score Overview

Welcome Back Amy Delaney!

Here is the list of the teams you have created. Use the "Edit Team" button to change the information for the team. Use the "Upload Files" button to submit files to be scored.

Team	Grade	Mentor	Deliverables	Due Dates
Team: 7th Grade	7th Grade	(Unassigned)	Virtual City City Essay Project Plan Honor Statement Expense Form Media Waiver	Due: Fri Dec 02, 2016 Due: Mon Dec 19, 2016 Due: Mon Jan 16, 2017 Due: Mon Jan 16, 2017 Due Date Not Set Due: Fri Jan 27, 2017
Team: 8th Grade	8th Grade	(Unassigned)	Virtual City City Essay Project Plan Honor Statement Expense Form Media Waiver	Due: Fri Dec 02, 2016 Due: Mon Dec 19, 2016 Due: Mon Jan 16, 2017 Due: Mon Jan 16, 2017 Due Date Not Set Due: Fri Jan 27, 2017

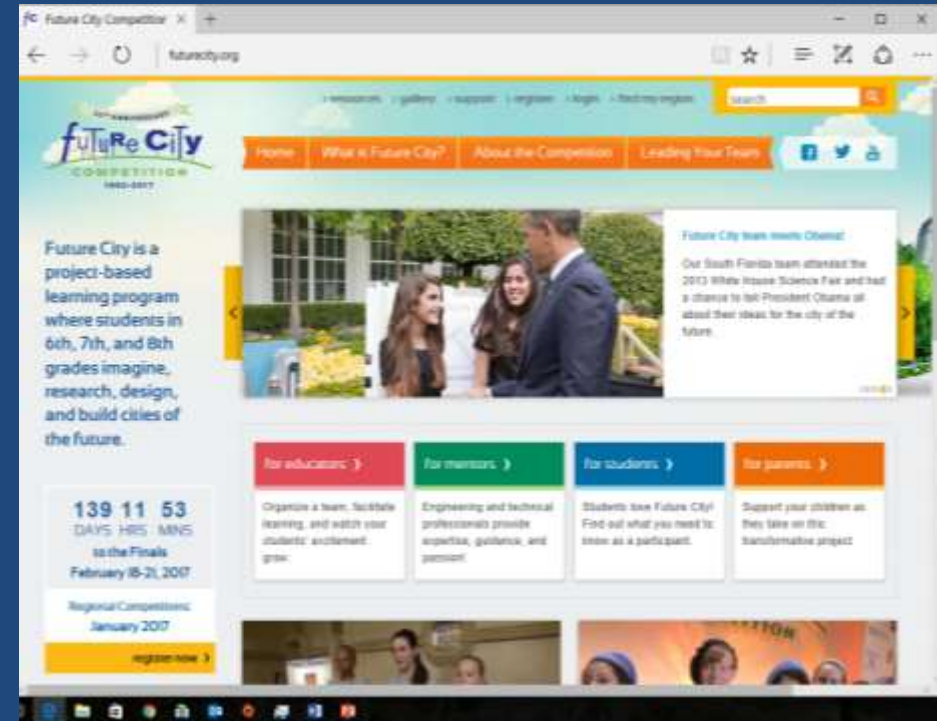
Copyright 2016 Summit Research, Inc. FC\_TEACH 1.8.17.142



# National Website

<http://futurecity.org>

- National website
  - Overall program info
    - Program description
    - General resources

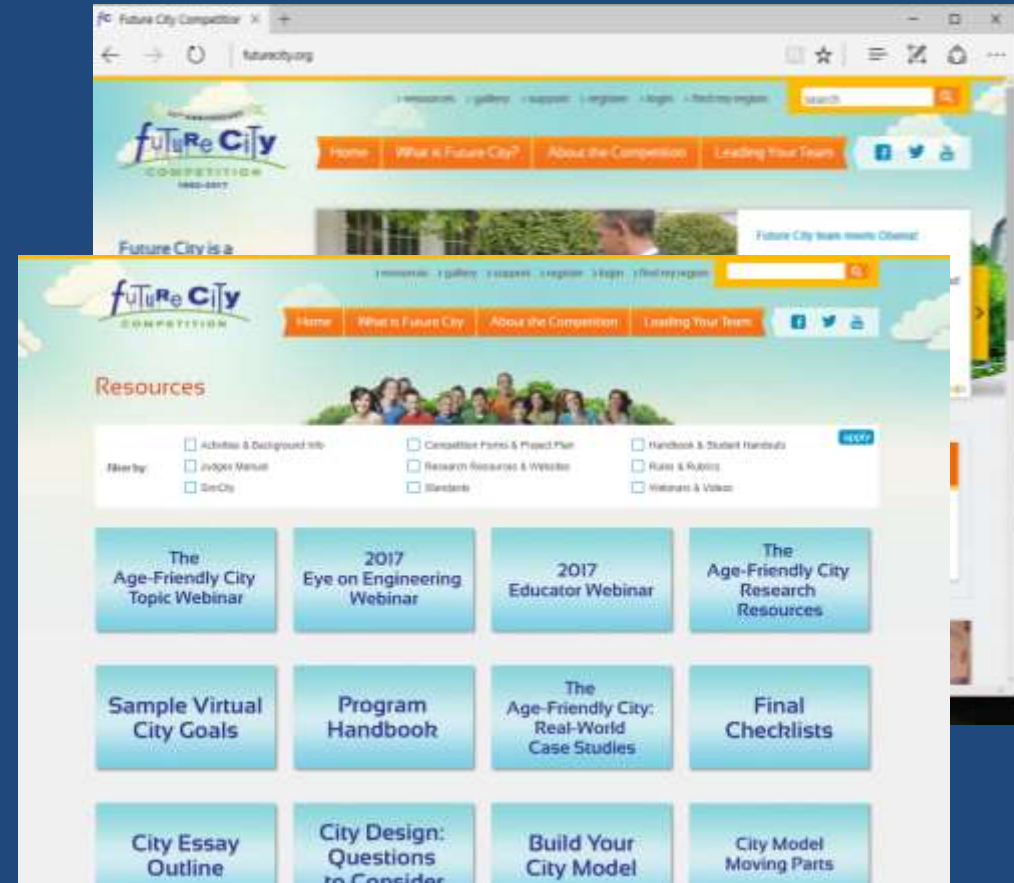




# National Website

<http://futurecity.org>

- National website
  - Overall program info
    - Program description
    - General resources
      - Handbook
      - Forms
      - Rubrics
      - Activities





# Online Resources

- NTX Team Center site
  - Manuals and forms
  - Letter to Parents
  - Orientation webinars
  - Mentor information
  - SimCity resources
    - Tips and How-tos
  - Lessons Learned
  - Where to learn more
    - City planning, project management
    - Essay
    - Models and presentations
- National website
  - Handbooks and forms
  - SimCity information
    - Download instructions
  - Activities
    - City planning activities
    - Team building
    - Model building and scale
  - Essay research resources
  - Rules, rubrics
  - Webinars
    - Essay topic
    - Engineering
    - Models and presentations





# If you still can't find the answer ...

- Ask
  1. Region coordinator  
[regional@dfwfuturecity.org](mailto:regional@dfwfuturecity.org)
  2. Region school coordinator  
[jfreer@gmail.com](mailto:jfreer@gmail.com)
  3. National program manager  
[info@futurecity.org](mailto:info@futurecity.org)





New This Year



# What's Different This Year

- A few Rules changes this year
  - Essays: What words count
  - Models:
    - Extensions beyond basic dimensions
    - Removable parts
- Theme: Clean Water: Tap into Tomorrow





# Rules: Updates and Changes

- Essays – what is included in total word count
  - Count all words in essay except the Title and References
  - Total word count now includes all captions and words in graphics, illustrations, and tables. – *new* –
- Model sizes – no larger than 25” x 50” x 20” in basic state
  - No change in basic size
  - Changed – now permissible to have parts extend outside the basic dimensions (access doors, compartments, hinged pullouts, drawers, etc.) as long as they are fully self-supported by model. – *new* –
  - Changed – now permissible to have removable parts used during the presentation as long as these parts are held by presenter and replaced in model (not placed on table, floor, etc.) – *new* –



# Research Essay

- 2020 Topic: “Clean Water: Tap into Tomorrow”
  - Select one threat to the city drinking water supply
    - Natural disaster, pollution, over-population, etc.
  - Design a resilient water supply system
  - Develop two innovative solutions to
    - Withstand the threat and/or
    - Quickly recover from the threat
  - Consider other elements of city that could be made more resilient





# City Essay Outline

- Introduction and overview
- City basics – description of the city
- Define the problem
  - Describe water system
  - Describe threat
    - Its effect on water system
    - Its effect on other infrastructure, services, population
- Develop two solutions
  - Innovative and futuristic
  - Engineering and technology involved
  - Benefits, tradeoffs
- Conclusion
  - How your design will make your city a safe, pleasant place to live



# Deliverables

2019-20





# Project Plan Deliverable

- Project Plan – 4 parts
  1. Set goals for the entire project
  2. Create a schedule
  3. Monitor progress periodically throughout project
  4. Reflect on team performance at end of project
- Project Plan (4 parts)
  - Single Word document file
- Submit through Team Center
- 10 points (not judged)
- **Due January 10**
  - Submissions from Jan 11-15, -5 points
  - Submissions after Jan 15, not accepted
- Resources
  - Team Center resources “Where to learn more”
  - Project management webinar



# Virtual City Design Deliverable

- Virtual City slide show
  - Created with PowerPoint, Google Docs, Word, etc.
  - Compliant with template
- Submit through Team Center
- Scored on: testing and refining design, learning outcomes
- 48 points
- **Due November 20**
  - Submissions from Nov 21-Dec 6, - 5 points
  - Submissions after Dec 6, not accepted
- Resources
  - NTX Webinars: city planning, SimCity, VC slideshow
  - NTX SimCity tips
  - National: city planning activities



# City Essay Deliverable

- Document (doc format)
  - 1500 words max
    - New rule on counting words
  - Upload through Team Center
  - Scored on: creativity, how well you explore/explain the issues, use of new technologies, role of engineers, writing skills
  - 60 points
- **Due December 9**
    - Submissions from Dec 10-20, -5 points
    - Submissions after Dec 20, not accepted
  - Resources
    - National Webinar on Resilient Water Systems (TBA)
    - National Research resources
    - NTX examples of best essays



# Physical Model Deliverable

- 3-D scale model of a section of your city
  - Must have a moving part and be self-powered
  - Cannot spend more than \$100 on materials
  - Basic dimensions: 25" x 50" x 20"
    - New rule on parts extending beyond basic size during presentation
- Model ID card
  - City name, team member names, school/org name, Scale
- Scored on: creativity, realism, accuracy and scale, quality of workmanship
- 70 points
- **Due January 24-25**
  - Deliver to UT Arlington
- Resources
  - NTX Orientation model slideshow
  - NTX List of materials from top models
  - National model webinar and activities





# Presentation Deliverable

- 5-7 minutes of presentation
  - 7 minutes maximum
  - Followed by 5-8 minutes of Q & A (total max time = 15 minutes)
- Scored on: technical knowledge, city design/features, innovation, teamwork
- 70 points
- **Due January 25**
  - At UT Arlington
- Resources
  - NTX presentation skills webinar
  - National video of NTX team in finals



# Ethics, Roles and the Honor Statement

- Future City is an educational program
- Rules are designed to ensure a fair competition
- Students envision the city and do all the work
  - Design, simulation, research, writing, model building, presentation
- Adults provide guidance and advice
  - Should be present when teams work with tools, build models
- All team members sign and submit an Honor Statement
  - Everyone adheres to the rules
- **Due January 10**
  - Upload through the Team Center
  - Submissions from Jan 11-15, -1 point
  - Submissions after Jan 15 not accepted





# Expense Form

- Cost of all materials for model plus presentation cannot exceed \$100
  - Recycled materials (plastic bottles, cans, boxes, etc.) = \$0
  - Used items (toys, building materials, etc.) = Fair market value\*
  - Donated items and Borrowed items = Fair market value \*
  - Purchased items should have Receipts
  - 3-D printed items priced per rules in handbook
- Document expenses on Expense Form
- **Due January 25**
  - Bring to UT Arlington with model

*\* Fair market value = garage sale or E-bay price*

# North Texas Region

Summing Up



# 2019-20 Registered Groups

- Anna Middle School, Anna
- Bailey Middle School, Austin
- Bowie Junior High, Bowie
- City of Lancaster, Lancaster
- Coppell Middle School East, Coppell
- Dallas Academy, Dallas
- Dallas Area Explorers, Richardson
- DiscoverSTEM, Plano
- Edge Middle School, Nevada
- Finley Junior High, Waxahachie
- Graham Junior High, Graham
- Grapevine Middle School, Grapevine
- Harmony School of Innovation, Fort Worth
- Hill Country Middle School, Austin
- Hudson Middle School, Sachse
- IW Evans Intermediate School, Bonham
- JA Arthur Intermediate School, Kennedale
- Jerry Knight STEM Academy, Mansfield
- JP Starks Math, Science & Technology Vanguard, Dallas
- Kerens Middle School, Kerens
- Lyles Middle School, Garland
- Mary Harris Elementary, Crowley
- Meadowbrook STEM Academy, Fort Worth
- Mineral Wells Junior High, Mineral Wells
- Paris Junior High School, Paris
- Pearson Middle School, Frisco
- Pearson Ranch Middle School, Round Rock
- Pioneer Heritage Middle School, Frisco
- Rapoport Academy, Waco
- Robert E Lee Intermediate, Gainesville
- SAIL Homeschool, Plano
- School for the Highly Gifted, Grand Prairie
- Scoggins Middle School, McKinney
- Scott Middle School, Denison
- Selwyn School, Argyle
- Slaton Junior High, Slaton
- Smith Intermediate, Forney
- Stepping Stone Academy, Plano
- Strickland Middle School, Denton
- TCC Generation Hope, Fort Worth
- Terry Middle School, Mesquite
- The Village School, Houston
- Universal Academy, Coppell
- Universal Academy, Irving
- UT Tyler University Academy, Longview
- Washington Middle School, El Dorado, AR
- West Ridge Middle School, Austin
- Wills Point Junior High, Wills Point

# 2019 North Texas Sponsors





# Required Deliverables

<b>20 Nov</b> 9 Dec	Virtual City Slideshow <i>Last day for Slideshow *</i>	Upload to Team Center
<b>9 Dec</b> 20 Dec	City Essay <i>Last day for Essay *</i>	Upload to Team Center
<b>10 Jan</b> 15 Jan	Project Plan <i>Last day for Project Plan *</i>	Upload to Team Center
<b>24 Jan</b>	City Model	Bring to UTA
<b>25 Jan</b>	City Presentation	Bring to UTA

*\* Late submissions will have points deducted*



# Required Forms

*All forms available on Team Center Resources page*

30 Nov	Home school affidavit	Mail to Regional Coord.
10 Jan	Honor Statement	Upload to Team Center
15 Jan	<i>Last day for Honor Statement *</i>	
10 Jan	Media Waiver Form	Upload or bring to UTA
25 Jan	Expense Form	Bring to UTA w/ model
25 Jan	Model ID card	Attach to model

*\* Late submissions will have points deducted*





# Program Timeline

Oct 31	Registration deadline
Sep-Nov	<i>Students work on City Plan/Design and SimCity</i>
Nov 20	<b>Virtual City slide show due</b>
Oct-Dec	<i>Students begin essay research and writing</i>
Dec 6	<b>City Essay due</b>
Dec-Jan	<i>Students work on model and presentation</i>
Jan 10	<b>Project Plan due, Honor Statement due</b>
Jan 24	<b>Team check-in, deliver model to UTA</b>
Jan 25	<b>Competition at UT Arlington, Award ceremony</b>
Feb	National Finals in Washington, DC

*See detailed schedule: [www.dwfuturecity.org/teamcenter.html](http://www.dwfuturecity.org/teamcenter.html)*



# Special Note – Potential Conflicts

- Duke Talent Search SAT (7<sup>th</sup> grade)
  - Don't select the January test date!
    - Option: UTA is a test site (reduce travel time)
- UIL competitions
- Options for those with conflicts
  - Notify Regional Coordinator by 20 December
    - Limited number of late Prelim Round presentation times allocated on first-come, first-served basis
  - Arrange for other team members to handle Special Awards judging Q&A
- Note: there is a letter to parents on website (Team Center Resources)
  - Outlines FC program and dates



# Lessons Learned

- Engineer-Mentor is necessary
- This project takes time
  - Educators – 30-40 hours
  - Mentors – 20-40 hours
  - Students
    - Design city – 18-20 hours
    - Build model – 40-60 hours
    - Essay, Narrative – 8 hours
    - Presentation – 7 hours
- Don't wait until January to start model and presentation pieces
  - Start collecting recyclable “building” materials now



## Lessons Learned (cont'd)

- Keep parents informed
  - Letter to parents (sample on website)
- Winning teams are successful on all phases
- But, Penalties for late work won't kill your chances
  - All late penalties combined are less than 7% of total score
- Read the handbook and rules for N TX competition
- Educator and mentor act as advisors, not designers
- Consider bringing in topic-area experts



# Regional Committee

Regional Coordinator

Judging Coordinator

Mentor Coordinator

Volunteer Coordinator

Photos, Prizes

Special Awards

Public Relations

Facilities

Jean Eason

Richard Reppert

Tom Hunt

Jacquie White

Diane Collier

John Colotta, Tamara Cook

Katia Gomez

Dave Davis