



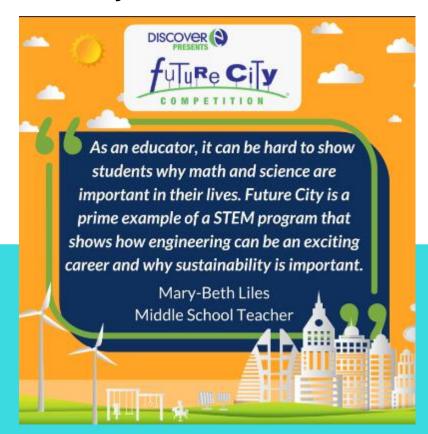
### **Above the Current**

Design a floating city and provide two innovative examples of how your floating city works and keeps its citizens healthy and safe

# **AGENDA**

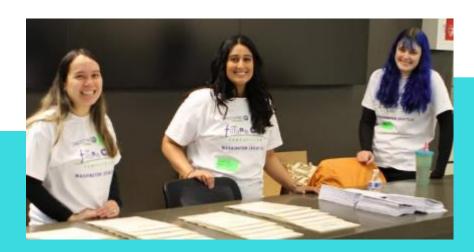
- Washington State Future City Committee
- Competition Overview Includes what is new this year
- Organizing Your Team
- Finding a Mentor
- <u>Future City Resources</u> Handbook, Future City Website & CMS
- Regional Competition Information





# WASHINGTON STATE FUTURE CITY COMMITTEE

- Karen Pavletich (Regional Coordinator)
- Kaitlyn Jakubek (Co-Treasurer)
- Steve Cresse (Co-Treasurer)
- Sophie Pavletich (Publicity)
- Karen Pavletich- (Teacher/School Advisor)
- Stacia Lesser (Competition Day Coordinator)
- Ken Pavletich (Photographer)
- Jeanne Harshbarger (Judging Coordinators)
- Carl Buher/Colin OBrien (Scoring Co-Coordinator)
- Lindsey Pavletich (Awards/Prizes)
- Puneet Janda (Member-at-Large)
- Carina Pham- (Member-at-Large)



# **THEME**

Theme: Above the Current!

**Design Challenge: Floating City** 

Design a floating city and provide two innovative examples of how your floating city works and keeps its citizens healthy and safe

### **Water Rule**

Any water used in the model must be self-contained or drainable.

### **Theme Webinar**

Date: October 10th, 2024

Time: 3pm ET

RSVP: 24'-25' Theme Webinar



# **COMPETITION OVERVIEW & CHANGES**

PROJECT DELIVERABLE COMPETITION POINTS **DUE DATE** last year 1. CITY ESSAY 54 POINTS 50 points DUE BEFORE COMPETITION **Dec 13** Teams describe the unique features of their city and their solution to this year's challenge: design a floating city and provide two innovative examples of how your floating city works and keeps its citizens healthy and safe. last year 2. CITY MODEL 65 POINTS AT COMPETITION Jan 18 65points Teams build a physical model of their city (in one piece or multiple segments) using recycled materials. The model showcases the team's city of the future, their solution to this year's challenge, and has at least one moving part. last year Jan 18 3. CITY PRESENTATION AND Q&A 72 POINTS AT COMPETITION 72 points Three student team members give a 7-minute presentation about their future city and their solution to the challenge. Teams have an 8-minute question and answer period, conducted with a panel of judges from the engineering, city, and technical communities. Note – this is in person presentation & Q&A Jan 10 4. PROJECT PLAN 10 POINTS DUE BEFORE COMPETITION

Teams complete a Project Plan to help them plan and organize their work. They use it throughout the project.

Total Points last year = 197 Total Points this year = 201 Nov. 1 Set Goals Nov 15 Create Schedule Dec 13 Conduct Check-in Jan 10 Reflect

# FUTURE CITY- TEACHER QUICK START

Teachers have asked for help navigating Future City. Check out:

- Future City Handbook Pages 45-50 Leading Your Team.
- Future City Getting Started guide in the resource section of CMS.
- Future City: Teacher Experience Video. Some of our veteran Washington Future City Teachers offer their advice.



# **COMPETITION TIMELINE**

	September 24									
Su	М	Tu	W	Th	F	Sa				
1	2	3	4	5	6	7				
8	9	10	11	12	13	14				
15	16	17	18	19	20	21				
22	23	24	25	26	27	28				
29	30									

	October 24								
Su	М	Tu	W	Th	F	Sa			
		1	2	3	4	5			
6	7	8	9	10	11	12			
13	14	15	16	17	18	19			
20	21	22	23	24	25	26			
27	28	29	30	31					

	November 24								
Su	М	Tu	W	Th	F	Sa			
					1	2			
3	4	5	6	7	8	9			
10	11	12	13	14	15	16			
17	18	19	20	21	22	23			
24	25	26	27	28	29	30			

	December 24								
Su	М	Tu	W	Th	F	Sa			
1	2	3	4	5	6	7			
8	9	10	11	12	13	14			
15	16	17	18	19	20	21			
22	23	24	25	26	27	28			
29	30	31							

Evei	nts
------	-----

Oct 31	Last Day to Register
Nov 1	Set Goals
Nov 15	Create a Schedule
Dec 13	City Essay & Conduct
	Check-in Session
Jan 8	City Essay w/ Late Penalty
Jan 10	Reflect on Project
	Team Confirmation
Jan 18	Competition Day
	City Model
	City Presntation
Feb 15-1	.9 Nationals

January 25								
Su	М	Tu W Th F S				Sa		
		1 2 3						
5	6	7	8	9	10	11		
12	13	14	15	16	17	18		
19	20	21	22	23	24	25		
26	27	28	29	30	31			

February 25							
Su	М	Tu	W	Th	F	Sa	
						1	
2	3	4	5	6	7	8	
9	10	11	12	13	14	15	
16	17	18	19	20	21	22	
23	24	25	26	27	28		

### DEADLINES & DATES



# FOR 2024-2025 COMPETITION

- Flexible competition format We are planning on an in person regional competition, but will stay alert for potential COVID impacts that could force us back to a virtual week long competition. For teams over 500 miles away, we will have option for teams attending our regional competition day in a virtual room.
- CMS User Dashboard. The streamlined website allow users to manage their teams, check deadlines, access resources, and more.
- Future City Website is integrated with the CMS User Dashboard.
- Virtual City NOT REQUIRED: Teams can use SimCity as an educational tool (codes will be provided) but nothing is submitted or scored.
- Paperless Forms Media waiver, honor statement, homeschool affidavit, and expense forms can be found in the Resources section of CMS
- Advancing to Future City Finals Check out page 70 of the hand book. This covers
  information on:
  - ✓ Registration and Travel
  - ✓ Transporting Your Model
  - ✓ Regional Winners Team Video & Photo

# FOR 2024-2025 COMPETITION

**Background Checks** Team mentors must complete their background checks and **be cleared by January 5**th. Future City mentors will be prompted to initiate the process when they register via the Competition Management System (CMS). Unfortunately, we cannot accept a completed background check from another organization. Background checks vary, some only address instances of financial fraud, for example. This background check will be conducted once every three years.

**Shipping Model to Washington DC** Teams are responsible for the cost of shipping or transporting all models to and from Finals. Our regional committee will work to figure out a budget for shipping.

# Special Awards Not Confirmed yet – last year we had...

- ✓ Best Land Surveying Practices sponsored by NCEES
- ✓ Outstanding Project Plan sponsored by the Project Management Institute Educational Foundation
- ✓ Best Visualization of a Smart, Sustainable City by American Society of Civil Engineers (ASCE)

# REGIONAL INFORMATION

- All teams can compete for Regional Awards. If you know of a company or individual who would like to sponsor a Regional award – let us know.
- Note City Essay is due Dec. 13, 2024. This will help both our teams and judges manage their time. There is a 5-10 deduction for late submittals.
- Note Project Plan separated into 4 deliverables. There is a 5 pt deduction for missed project plan deadline.
- For Multiple Team Format from one school you may bring 3-5 teams to represent your school. This will depend on our total team numbers this year. We will be working with you on knowing your active team count. Stay tuned for the final team numbers.
- Stay tuned for Virtual Office Hours: Can include discussion around Future City Program Details, Onboarding new schools and Teacher Input Sessions
- Thank you to Shoreline Community College for their continued partnership with Future City.



# **COMPETITION TIMELINE – DETAILS**

By October 31, 2024

Future City Registration should be completed -**BUT SOONER IS BETTER** 

Friday Nov. 1rd

**Project Plan Set Goals** 

Friday Nov. 15<sup>th</sup>

**Project Plan Create a Schedule** 

Friday, Dec. 13th

**Project Plan Conduct Check In Session &** City Essay (1500 words)

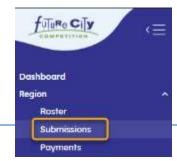
Note -essay is due before Winter Break to help our teams and judges manage their time.

- 5 pt deduction for submittals before, Dec. 20, 2024
- 10 pt deduction for submittals turned in between Dec. 21 and Jan..

Note - Project Plan Deliverables are set to support the teams success

5 pt deduction for late project plan submittal

**Deliverables** uploaded to CMS



### Friday, January 5, 2025

Mentors must have cleared their background check.

### Friday, January 10, 2025

- Project Plan –Reflect on ProjectFinal Team Confirmation
- Competition Expense Form
- Honors Statement
- Media Waiver Form
- Home School Affidavit

# Saturday, January 18, 2025 Regional Finalist Competition Day - in person

- Morning Prelim & Afternoon Finals City Model, City Presentation and City QA
- **Guest Speaker**
- Awards Team Recognition, Regional Awards and Finalists

### February 15-19, 2025 National Future City Competition

Our first place winner moves on to Nationals!

# ORGANIZING YOUR FUTURE CITY STUDENTS

### Official Team



Includes three student representatives, one educator, and one mentor. Most regions welcome teams larger than three students: however, only the three official student representatives present the team and answer questions at the competition.







An organization can form multiple teams under one educator account. Check with your Regional Coordinator to see how many teams may compete in the Regional Competition.

### Other Team Formats

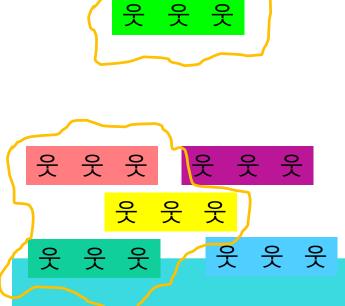




Some classrooms or clubs choose to work in one large team and break the work into smaller groups.

# ORGANIZING YOUR FUTURE CITY STUDENTS

- The "other team format" or "larger than three presenting students" is a great way to involve more students in the program.
- Keep in mind though that if you choose a format with more than three students, your group will have to self-select the same three students for the City Presentation and Q&A (which have been chosen by teacher or peers). Those will be the three "official student team members" for both the Regional and National Competitions.
- Depending on our team numbers for Multiple Teams from one schools you may bring 3-5 teams to represent your school. Stay tuned for the final team number.



Reminder – For larger team formats, only the same three presenters can participate in the City Presentation and the City Q&A with the Judges.

# CAN FUTURE CITY BE CUSTOMIZED FOR MY STUDENTS?

Keep an open dialogue with the Regional Coordinator about the needs of your team. Even if your teams do not complete all the competition deliverables, they may still have an option of presenting at the Regional Completion. While they would not be eligible to move to the final round of competition in the afternoon, there could be some Regional Awards those teams could compete for. They would also receive certificates of participation and swag bags.

Can I Still Do Future City Without
Competing? Yes! Anyone is welcome to
register (for free!) and access Future City's
full library of resources. Many regions
encourage teams to participate in the
competition even without all the deliverables
completed—this is known as being a "partial
competitor." Check with your Regional
Coordinator to see if the partial competitor

option is offered in your region



Go to future city.org/resources (filter for Standards) and download PDFs showcasing how Future City aligns with:

- · Common Core State Standards
- · Next Generation Science Standards
- Benchmarks for Science Literacy
- National Education Technology Standards
- Principles and Standards for School Mathematics
- Performance Indicators for Technology-Literate Students

# CAN FUTURE CITY BE CUSTOMIZED FOR MY

**STUDENTS?** YES – TEAMS CAN DO ALL DELIVERABLES TO BE ELIGIBLE FOR THE REGIONAL PRELIMINARY COMPETITION - OR DELIVERABLES CAN BE CUSTOMIZED TO FIT YOUR CURRICULUM.

Future City Curriculum Connections & 21st-Century Skill Development

COMPETITION DELIVERABLES	Math	Science	Research	Writing	Civics/ City Planning	Public Speaking	Engineering Design Process	Problem Solving	Teamwork	Project Management
CITY ESSAY Describe your city and solution to a citywide sustainability issue.	>	~	>	~	~		~	٧	~	~
CITY MODEL Build a scale model using recycled materials.	٧	~	>	~	~		~	٧	~	~
PROJECT PLAN Complete project plan to stay organized and focused throughout the project.				~			~	٧	~	~
CITY PRESENTATION Showcase your city's innovative features in a short, filmed video.		~	~	,	~	~	~	٧	~	~
CITY Q&A Discuss your city with a panel of judges.		~	~		~	~	~	~	~	~

# FINDING AN ENGINEERING MENTOR

# **Mentors**

Mentors work alongside the Educator and act as a coach and role model, share reallife STEM experiences, offer technical guidance, and help translate academic concepts to the real world of engineering and city design.



### **Time Commitment**

About 15-25 hours throughout September - February

### Who can be a mentor?

Engineers, technicians, urban planners, Project managers, architects, undergrad or graduate students studying a related field

Mentors must complete Discover E background check by Jan. 5th. – submit in CMS

# FINDING AN ENGINEERING MENTOR

# **Benefits of Recruiting Your Own Engineering Mentor**

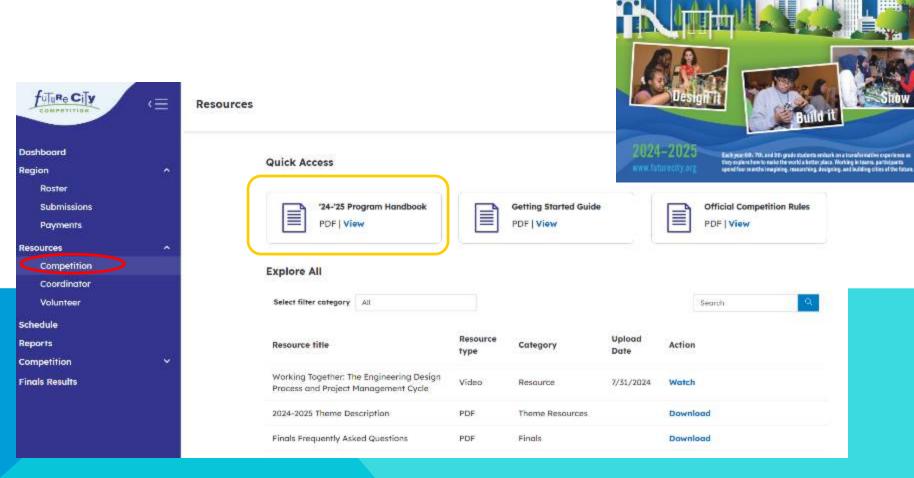
- Self interest: Volunteers with a close relationship to your school (e.g., parents of your students) will automatically be more interested in helping to enhance the learning process
- Knowledge: Local volunteers will have an increased awareness of local concerns and the resources and goals of your school
- Better outcomes: You have a better chance for success with a volunteer you have chosen.

# **Finding Engineering Mentor**

- Use Partner-Mentor-Recruitment-Flyer one pager handout provided by your regional coordinator.
- Ask an engineer who has visited your classroom on other occasions (career days, science fair judging).
- Appeal to the parents of the students in your class or school. Place an article in the school newspaper or send a letter home with the students.
- Check with your colleagues at the school. Perhaps one of them is married to or knows an engineer.
- Contact your school's business partners. A local contact that has made a community commitment is an "easy" target.
- Contact your City's Bureau of Engineers. City partnerships with the local school district are usually a priority.
- Tap into other community resources such as YMCA, PTA, churches, museums. They may have volunteers that are willing to help.
- Issue a school press release announcing your participation and the need for a volunteer.
- Look in the phone book under "Engineering" firms. Call to see if they are interested in education programs and community service.
- Check with the local chapters of the major engineering professional associations http://pseconline.org/Societies/

# **FUTURE CITY HANDBOOK**

The handbook is available on-line for download for registered schools in CMS.



**Program Handbook** 

# **FUTURE CITY HANDBOOK DESIGN**

To help guide your students the handbooks leads with sections to hi-lite this years challenge and brings the break down of each deliverable to the front of the handbook.

The project management sections – define, plan, do and review sections are the core of Future City.

To help you guide your students, you will see the Educator Dashboard and Dig Deeper Links throughout the handbook.

Links to your CMS dashboard resources.



### **Educator Dashboard**

Visit Dashboard.FutureCity.org for easy access to all Future City resources, including student handouts, activities, due dates, and more!

Links to inspire with EWEEK YouTube Videos

### **Get Inspired!**

Check out videos of high scoring models from previous years on the Future City YouTube channel: www.youtube.com/user/EWEEKFUTURECITY

### Links to dig deeper

### DIG DEEPER

Students can practice applying the engineering design process with:

- Tower Building Activity Resources section of the Educator Dashboard at FutureCity.org.
- Cargo Bridge Game (http://www.engineering. com/GamesPuzzles/CargoBridge.aspx)

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# IT OFTEN. REFER

# **FUTURE CITY WEBSITE**

DISCOVER (3) Log In Register Donate fulure Cily What is Future City Why Future City Who Participates How It Works The Ultimate competition. Future City is a hands-on cross-curricular educational program that brings STEM to life.

Integrated with CMS

- your quick access
to information

Streamlined information for Parent/Students and Future City Roles for Teacher/Mentors

Engineer Design Process: Define, Plan, Do and Review





Future City is a program of DiscoverE. DiscoverE is a nonprofit dedicated to providing global resources, programs, and connections between K-12 students and engineers and STEM professionals. We have a special focus on reaching girls, and under-represented and under-served students. DiscoverE is the backbone organization behind some of the earliest and most broadly adopted STEM and engineering

### Handy Links - bottom of web page

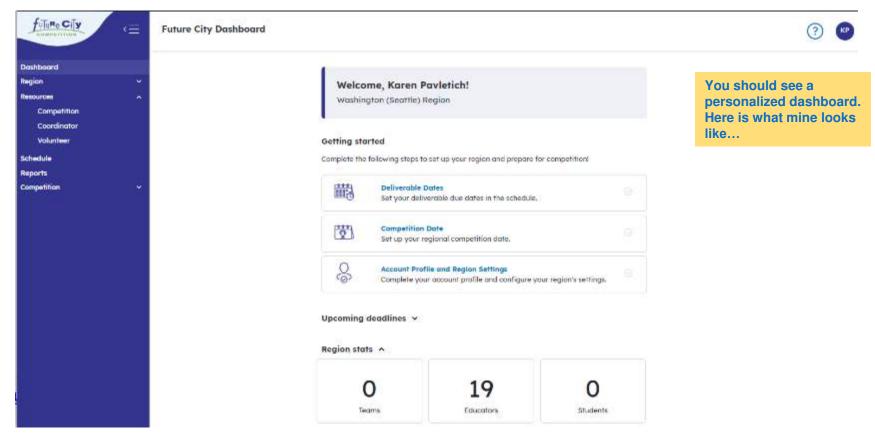
### Competition Community Program What is Future City Facebook Gallery Why Future City YouTube Who Participates Register Twitter How It Works Log in Link to Washington Press Kit Waivers & Forms **Region Website**

# **WASHINGTON FUTURE CITY WEBSITE**

On our homepage you will find a welcome, region overview and our "Future City Basics - Teacher Experience" Video **CMS** Competition Day @ Login DISCOVER (2) fully City What is Future City Why Future City Who Participates How It Works Future City High School -Competition Guidelines 4 **FUTURE CITY REGION** Mentors Needed @ Washington (Seattle) Judges Needed @ DEADLINES & DATES Regional Schedule 6 Regional Competition Essay Model Presentation Sponsors 0 December 13, 2024 January 18, 2025 January 18, 2025 January 18, 2025 January 18, 2025 Our Committee & Part 1 Part 2 Part 3 Part 4 Project November 1, 2024 November 15, 2024 December 13, 2024 January 10, 2025 For additional regional information check out these sections in the second

half of the webpage

# **COMPETITION MANAGEMENT SYSTEM (CMS)**



Response to your new CMS that launched last fall has been very positive.

- Personalized dashboard to easily view your teams and students
- System is more user friendly.
- Easier to manage deliverables.

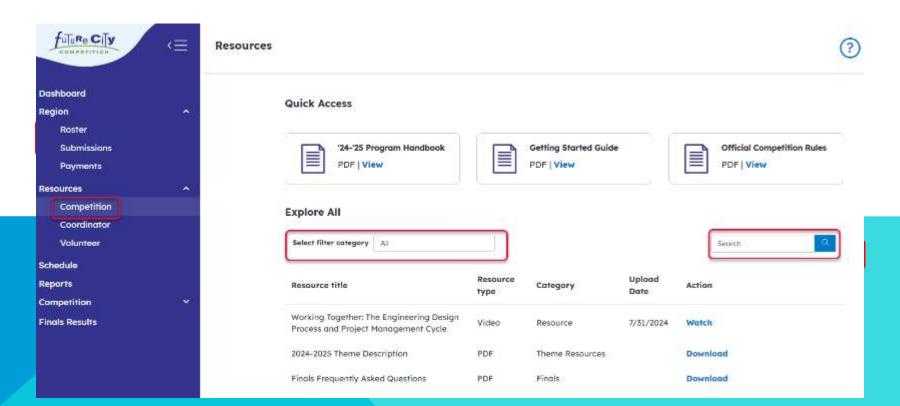
# CMS RESOURCES SECTION

The <u>resource section</u> of the CMS can be filtered by:

- Activities and Background
- Essay
- FC Branding
- Finals
- Forms
- Handbook and Student Handouts
- Instructions

- Presentation
- Project Plan
- Research Resources
- Resources
- Rules and Rubrics
- SimCity
- Theme Resources

Or you can search for a single deliverable. This is where to find the most up to date resources.



# **TEACHER SUPPORT**

We want you input and feedback. You can call, email or set virtual meeting any time — karen.pavletich@PSE.com

Stay tuned for Virtual Workshop Invites: Future City Program Details, Onboarding new schools and Teacher Input Sessions



# REGIONAL COMPETITION

- When
  - Saturday, January 18, 2025
- Where Shoreline Community College

9000 PUB Building 9114 16101 Greenwood Ave. N. Shoreline, WA https://www.shoreline.edu/map/directions-to-campus.aspx



- Registration will open at 7:30 a.m. Final schedule will depend on number of teams actually attending
- Team Confirmation is due Jan 10, 2025 in CMS

# Cost

 Team members provide their own transportation, meals and any overnight expenses





See what our in person competition looks like! https://www.youtube.com/watch?v=tTx7j9

- ✓ Work with students and parents this is a full day commitment
- ✓ Mentor background check must be cleared by Jan 5, 2025.

# **REGIONAL COMPETITION FORMAT**

- "preliminary competition"
  - Typically up to 3-5 teams from each school may compete\*
- "finalist competition"
  - 5 finalists from the preliminary competition
  - Only one finalist from any individual school
  - All teams and guests invited



\*depends on number of schools and teams participating, we will keep you updated

# **COMPETITION FORMAT – REGIONAL AWARDS**



**Best Overall Score for First Year School** 

Best Use of Scale The team that best utilizes the space allowable to build their city.

Most Innovative Moving Part The most energy efficient (uses the least energy for the task it does), structurally efficient (highest strength to weight ratio, best use of materials), and functionally efficient (simplest for the task it does).

Best Community Services The city that has the best ways to give back to those in need and/or their environment and/or the city that has the most fun recreational activities for their citizens.

Most Spirited The team that had the best team spirit based on how well their presentation and model showed team collaboration, respect, and spirit.

Best overall city essay

Best Overall Equitable Solution for 100% Electric City Most innovative and comprehensive resource mix to support ALL citizens in your city.

**Best Project Plan** 

Most advanced technology in City Essay

# **EXPENSE FORM – COMMONLY ASKED QUESTIONS**

### 1. Why is there a \$100 limit?

This rule was established to ensure equity among teams and to encourage students to creatively use recycled materials.

### 2. When can we assign a zero value?

Items that are allowed in a home or school recycling bin (such as paper, plastic bottles, glass jar, or metal cans) or items bound for the trash (like used-up batteries, bottle caps, used plastic utensils, etc.) can be assigned a zero \$ value.

### 3. How do we figure out the fair market value?

Items that are donated or have been previously used but can't be recycled (such as mirrors, foam core, dowels, wood, magnets, holiday ornaments, old toys, lab coats, etc.) need the assigned a fair market value. Fair market or salvaged value may be determined by pricing found at a yard sale, auction, classified ad, surplus store, e-recycling service, etc.

### 4. What about items we take apart?

Many teams take apart computers, electronics, or other items to "harvest" interesting parts. These items need to have a value assigned. Facebook Market place or EBay is an easy place to start.

See Page 40 of the Competition Handbook.	Description of City Model Materials	Purchased	Donated	Recycled	Expense/Value
age 40 c Handle	Assorted paint from parent's garage		•		\$2.00
See Pagtition	Two one-liter soda/pop bottles			•	\$0.00
Compo	Egg carton			•	\$0.00
	Toy train		•		\$0.50
	Motherboard from scrapped computer			•	\$2.50
	Green LED lights	•			\$4.50
		Subto	otal A—City Mo	del Expenses:	\$9.50

Description of City Presentation and Q&A/Special Award Materials	Purchased	Donated	Recycled	Expense/Value	
Foam poster board	•			\$9.00	
5 pages of color printing	•			\$5.00	
Top hat (costumes)		•		\$3.00	
Lab coat (borrowed from teacher)		•		\$2.00	
Subtotal B—City Presentation and Q&A/Special Award Materials Expenses:					

\$9.50 \$19.00 = Total Expenses \$28.50 Subtotal A . + Subtotal B

# **RULES & SCORING DEDUCTIONS**

# Have students review pages 42 – 44 often and carefully!

# **Official Competition Rules**

General

City Essay

City Model

- 1. The Future City Competition is open to aligible 6th. 7th, and Bit grade students who are enrolled in a public, private pare chief, or home school orwing ment or are members of such as the Sonuts, Boycland Sirts Quite, 4 H. etc. Typu are onsure if your organization is aligible to participate, please contact Fature City@DiscoverE.org. Fature City/has the sole and exclusive authority to determine whether an array reader is eligible to participate and has the right to require ad ditional documentation to wally aligibility.
- 2. Student loan members must be from the same school or ouganization, unless otherwise approved by Future City staff Students carnot be on multiple teams.
- 2. Organization's may register in only one region. If they wish to transfer to a different region, they
- approved of the Regional Coordina Teams must commit to a specific r
- 4. And final competition team is no presentient (students), one registe mentas, filo oducators or mentars, members may present or arrayer of during the Presentation and QSA-
- 5. Town mentors are defined as the p within DiscoverE's Future City Con laka, Future City Dushboards has check, and been assigned to a ten oxestions.
- 6. The beam members that compute in the Free's Computation must be the same team members that won the Regional Competition. You may select one student to act as the alternate for both Regions is and Finals. The alternate may only be utilized if one of the original throughouts current compete due to illness. or family emergency. The alternate may only competit upon the approval of the Regional Coordinator (for the Regional Competition) and the Proposes Manager (for the Finals).
- 2. At least 20 schoolsk spanishions must be registered in a region by October 31, 2023 in order for that region's wirmen to advance to the Finals Competition.
- 8. Home-school educators must submit an afficiavit to their Receives Coordinators lating that the students are covering the material in the Grb. 7th, or 8th prodes. Regions reserves the right to require proof of home school students' registration for participation in groups on.
- 8. Dollverable deadlines vary by region and are listed in the Ficture Oty Dephic and, If deadlines are nessed at the Regional or Finals level, points will be deducted.
- 10. At regional competitions, only one team from a school or organization can advance to the tinal round of judging. At competitions with a single judging round, only one team from a school or organization may be awarded a place in the last line overall trust is

11. All team members must sign and submit the Honor Statement online prior to the regional deadline.

- 22. Students must include a selection or page citing at least three sources of leformation with the essay. (Note: Wikipedia sannet: be ofted as a reference.)
- 23. The maximum word apart is 1,500, initial tabulation indone by the "word count" tool within the word processing software. The final ward court does not include the title and reference list but does include paptiens and words that appear within a graphic. Bushvillon, or table. A maximum of four goodsics or Bushvillons.

25. Teams must cleated a new model or model secretarily. Teams may

not use now invitative and markets. Provings reside is may be business.

down and scawinged for materials, including the base model

platform. Any a sevicurity used materials must be reconfigured

in a new and original manner and assigned a purront market

29. The city model in its basic state must not exceed 257 (60) a SET

salue. Teams do not need to include the cost of their flat empty.

base to g., the cost of plywood or similar materiall in the expense

(Lin 20" H). During the Presentation and QSA, it is permissible

model, or -- if removable-bald by a presenter. If the learn makes

multiple model segments, they must achieve to the overall size.

restrictions noted above when placed logother on a tabletop.

or other fiving objects, hozsidous items (in duding dry los), and

free, If water is used in the model, it must be self-contained or

model segments is only required to create one moving part, not

bathery/simple circuit). Doe of electrical wall or floor outlets in

23. The total value of the materials used in the Model Presentation. QSA, and special awards (including visual aids, contames, calor copying/printing, 30 printing, and other demonstration aids!

50. Destribited model there: I've animals, metals ables food, dromes

21. Each model must include a moving part. A team with multiple

32. Power source; must be self-contained, luxu, a hij portrold

one for each segment.

may not expeed \$100.

to have estimated parts, such as access doors, compartments,

and pullouts, as long as they are fully self-supported by the

24. The City Essay file result be uploaded as a word processing

Competition Rules split into sections:

City Presentation and Q&A

- 34. All materials used must be listed an the Competition Exponse. Form and their value documented for the Model, Presentation and QBA, and special awards. This includes donated and borrowed flows at fair market value:
- 35. Alsem may use up to four distinct scales if they are clearly defined, easily determined by sight, and indicated on their index
- 36. Use of 3D printers for any model materials must be assessed. using the following values, which account for the cost of thement and the hardware printer
- . White 3D printing: \$2.00 per public inch.
- inting: \$5.00 por cubic inch
  - d materials used—whether new or regard—must on the competition expense form using these

walue to required to be livited.

- resenters may participate in the Presentation. to your ownerable. The Presentation portion may not exceed
- 7 minutes. When the finer signals time, the team must stop the presentation will be 5 min utes.
- 46. Lasting controllers, overhead projectors, DVII/sides players. be trany operated audio equipment, any mobile devices, and drames may not be used in the presentation.
- 41. Westel pilds, such as flip thorse, from boords, preser boards. etc. must not exceed these parameters: the display(s) cannot be larger than standard size (24" x 36" for poster boards, 26" s boards or file charts may be displayed concurrently, or one tri-
- 42. With the exception of a handout/brochure (limited to one 8.5% TT" sheet of paper) and costumes, a try other demonstration. aids including peintors, shall mock-ups, musical instruments, etc. used to assist with the presentation must collectively lit in a 6" x 5" x 12" volume (e.g., a shoe box). Guns or vepticas that could restrictedly be mistaken for a gumare not permitted. Normalistic items (such as a water gun that is deady a toplate

### circuit boards les: Respherty Pt. Ardenollary ng as the full cost is listed on the exposes form.

### ation and Q&A

- re-packate spection and answer securing immediately following
- 38. Presenters may use their medel/needel segments, pacters. graphics, contames, and other visual aids.
- 30" for flip charts, 36" x 48" for tri-fold boards); up to two poster

# **Scoring Deductions**

By completing all five deliverables, teams can earn up to 197 points. Judges evaluate each deliverable in accordance. with the rubries. The score a judge assigns is final. At the Regional Competition, the Regional Coordinator has the final word on any dispute. At the Finals Competition, the judges" decisions are final. There is no appeals process at either level of competition.

	Penalty	Description
GENERAL	5-10	Missed deadline for any deliverable [Deadlines are out by Regional Coordinator; check with them to see if late submissions are accepted.)     Missed deadline for Honor Statement or Competition Expense Form & receipts
	20	Exceeds the \$100 expense limit or misrepresents the values of materials used in the Also model and recognitation.
	Box 1990 h	ote:. Regional Committee will ovide guidelines in December .
	L13400	Destruction of another team's work or materials or actions Unsportsmanifee conduct, including but not limited to: Rude behavior or disruption of judging by any team member or guests Commiteds from team members or team supportines that malign, disparage, or harnes regional coordinators, staff, or volunteers.
PROJECT PLAN	5-10	+ Incomplete or late
CITY ESSAY	2-10	Exceeds 1,500 word first (includes all words besides title and reference list — including captions and words in graphics, illustrations, enditabled.
CITY MODEL	2	Missing tram identification card
3	5-15	Reuses a past model without reconfiguring it in a new and uniginal manner     Exceeds size restrictions of the model (combined model segments collectively)     Uses a prohibited item (see rule 29)
CITY PRESENTATION AND Q&A	5-10	Presentation exceeds the time limit     Anyone on the team other than the three official team members areases judged questions     Team does not follow instructions from the timekeeper and/or moderator