WASHINGTON STATE FUTURE CITY COMPETITION

2020-2021 SEASON
AGENDA

- Washington State Future City Committee
- Changes in the 2020/2021 Season
- Future City National – Fall Webinars
- Competition Overview
- Website
- Future City Handbook
- Rule Changes & Program Updates
- Organizing Your Teams and Timelines
- Regional Competition Information

Program Framework:
- Virtual City
- City Essay
- City Model
- City Presentation
- City QA
- Project Plan
WASHINGTON STATE FUTURE CITY COMMITTEE

- Karen Pavletich - (Regional Coordinator)
- Steve Cresse - (Treasurer)
- Leann Kostek - (Sponsorship Coordinator)
- TBD - (Publicity)
- Tammie Becthel - (Teacher/School Advisor)
- Carina Pham - (Competition Day Coordinator)
- Ken Pavletich/Judy Allen (Photographers)
- Sarah Davis/Jeannine Harshbarger - (Judging Co-Coordinators)
- Carl Buher/Joseph Do - SimCity Program Co-Coordinator/Scoring Co-Coordinator
- Louis Tibbs - (Sim City Advisor)
- Puneet Janda - (Awards/Prizes)
- Jennifer Cheung/Emma Delvento/Hannah Jimma/Jens Nedrud/Steve Allen - (Members-at-Large)
CHANGES FOR 2020/2021

• Not Required! Virtual City: No longer a required deliverable. Teams can use SimCity as an educational tool (codes will be provided) but nothing is submitted or scored.

  ▪ No change! City Essay: Design a lunar city and provide examples of how your city uses two Moon resources to keep your citizens safe and healthy. (58 points)

  ▪ Updated! City Model: Teams build a physical model of their future city (to scale) using recycled materials. Teams may create a single model OR multiple model segments. Then using the provided template, teams will submit a PDF slideshow containing photos and accompanying descriptions of their model prior to the Regional Competition. (65 points)

  ▪ Updated! City Video Presentation: Teams record a 7-minute video presentation about their city. The recorded video is due prior to the virtual Regional Competition and the question-and-answer session will be separate (see below). (50 points)

  ▪ Newly Separate! City Q&A: No longer part of the City Presentation, the City Q&A has its own rubric this year. In order to maintain the interaction between students and professionals that makes Future City so special, teams will have an expanded 10-minute question-and-answer session with judges from the engineering, technical, and city design fields. Sessions will be conducted live via a video conferencing platform and scheduled by your Regional Coordinator. (25 points)
STILL DOING THIS FOR 2020/2021

• **Project Plan** – No rubric, but 10 points for complete submittal, 5 points for incomplete plan and 0 points for not submitting a plan. **Teams complete a project plan to help them plan and organize their project** More detail provided on the Check-In Reports on page ? and ?.

• **Forms Going Paperless** - Media waiver, honor statement, homeschool affidavit, and expense forms are no longer printed in the Handbook. Instead, they will all be available in the Resources section of the website (filter for “Competition Forms & Project Plan”).

• **Media Waiver Forms** - All *media waivers* will be submitted as online forms through the CMS. Parents / guardians will submit the form digitally to the CMS (without needing their own personal account). Educators will be able to see the list of forms submitted by their student’s parents.
REGIONAL INFORMATION

- The Inland NW (formerly Eastern Washington) will be hosting a sub-region virtual competition. Their winners will join our regional competition. This continues to be a great opportunity to expose more students to Future City in our area.

- For this year’s virtual competition there will be more 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. 23, 2020. This will help both our teams and judges manage their time. There is a 5-10 deduction for late submittals.

- For Multiple Team Format from one schools you may virtually 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.

- Thank you to Shoreline Community College for your continued partnership with Future City. We hope to be returning in 2022.
FUTURE CITY WEBINAR – BEST PRACTICES & ADVICE

You can check out last year’s webinars to:

✓ Support returning Educators getting the most out of the experience and how to do well.
✓ Share with your student to hear from professionals and learn about different STEM careers

https://futurecity.org/resources?field_resource_category_target_id%5B89%5D=89

2020 webinars TBD – but you can still checkout 2019
FUTURE CITY WEBINARS

https://futurecity.org/2019-new-educator-webinar

For new educators – check out the webinar from May 2019!
## COMPETITION OVERVIEW

<table>
<thead>
<tr>
<th>PROJECT DELIVERABLE</th>
<th>COMPETITION POINTS</th>
<th>DUE DATE</th>
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<tbody>
<tr>
<td>1. PROJECT PLAN</td>
<td>10 POINTS</td>
<td>DUE BEFORE VIRTUAL COMPETITION</td>
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<tr>
<td></td>
<td>Teams complete a Project Plan to help them plan and organize their work. They use it throughout the project.</td>
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<td>2. CITY ESSAY</td>
<td>58 POINTS</td>
<td>DUE BEFORE VIRTUAL COMPETITION</td>
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<tr>
<td></td>
<td>Teams describe the unique attributes of their city and their solution to this year’s challenge: Design a lunar city and provide examples of how your city uses two Moon resources to keep your residents safe and healthy. (1,500 words maximum).</td>
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<td>3. CITY MODEL</td>
<td>65 POINTS</td>
<td>DUE BEFORE VIRTUAL COMPETITION</td>
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<td></td>
<td>Teams build a physical model of their city (in one piece or multiple segments) using recycled materials. Teams then present their work to judges in a slideshow document, using photos of the model to showcase specific aspects of their future city and the team’s solution to this year’s challenge. It also needs to include at least one moving part, demonstrated via video.</td>
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<tr>
<td>4. CITY PRESENTATION</td>
<td>50 POINTS</td>
<td>DUE BEFORE VIRTUAL COMPETITION</td>
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<td></td>
<td>Teams record a 7-minute presentation about their future city and their solution to the challenge. The short video highlights the futuristic innovations in the city and gives each team a chance to bring their city to life.</td>
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<tr>
<td>5. CITY Q&amp;A</td>
<td>25 POINTS</td>
<td>LIVE AT THE VIRTUAL COMPETITION</td>
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<td></td>
<td>Teams have a 10-minute question-and-answer period, conducted virtually, with a panel of judges from the engineering, city, and technical communities.</td>
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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! Future City is first and foremost a Science, Technology, Engineering, Art, and Math (STEAM) program. Educators, parents, and mentors are encouraged to adapt Future City to match their particular goals. Over the years, educators and mentors have used the Virtual City to teach city planning, the City Essay to strengthen research and writing skills, and the City Model to understand scale and city planning.

Future City Aligns with Academic Standards

Go to futurecity.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

Due to this year’s virtual schooling demands we want to support and better recognize our partial competitors. That will mean more regional awards. Stay tuned for more details.
CAN FUTURE CITY BE CUSTOMIZED FOR MY STUDENTS?

### Future City Curriculum Connections & 21st-Century Skill Development

<table>
<thead>
<tr>
<th>COMPETITION DELIVERABLES</th>
<th>Math</th>
<th>Science</th>
<th>Research</th>
<th>Writing</th>
<th>Civics/City Planning</th>
<th>Public Speaking</th>
<th>Engineering Design Process</th>
<th>Problem Solving</th>
<th>Teamwork</th>
<th>Project Management</th>
</tr>
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<td>Describe your city and solution to a citywide sustainability issue.</td>
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<td>Build a scale model using recycled materials.</td>
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<td>PROJECT PLAN</td>
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<td>Complete project plan to stay organized and focused throughout the project.</td>
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<td>CITY PRESENTATION</td>
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<td>Showcase your city's innovative features in a short, filmed video.</td>
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<td>CITY Q&amp;A</td>
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<td>Discuss your city with a panel of judges.</td>
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HELPFUL - HTTP://FUTURECITY.ORG/

Resources – your quick access to information

Engineer Design Process: Define, Plan, Do and Review

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

The web-site will have the most up to date competition information. Please refer to it often.
WEBSITE – RESOURCES QUICK AND EASY

Use the filters for quick navigation to whatever you are looking for. This will be your new best friend.

Or browse through the pages...

https://futurecity.org/resources
WASHINGTON FUTURE CITY WEBSITE

You will also find the link to our local Washington website here on the National site.

On our homepage you will also find our “Future City Basics – Teacher Experience” Video

https://futurecity.org/washington

A competition for 6th, 7th & 8th grade students to foster interest in engineering, math, and science through hands-on, real world applications.

The mission of the Future City Competition is to provide a fun and exciting educational engineering program for sixth, 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.
The handbook is available on-line for download. If a hard copy is needed, please contact the Regional Coordinator.
The deliverables don’t each have their own section in the handbook. You touch on the deliverable multiple times as part of the Engineering Design Process. The appendix helps to streamline the deliverables.

To help you guide your students, included in each of these sections are:

- Links to activities that have been vetted by past years pilot schools.
- Links to appropriate Future City pages
- Boxed Tips with external links.
- The handbook gives you options on how to present the materials to your students.
FUTURE CITY HANDBOOK

• The handbook has been designed with updates based on input from teachers, mentors and regional coordinator. You will see Dig Deeper, Tips and Links noted in the handbook.
• Dig Deeper suggest additional resources and areas for you team to explore
• Boxed tips are also included with external links to share with your students.
• Links to appropriate Future City pages are also included.

READ THE HANDBOOK AND REFER TO IT OFTEN. IT WILL BE YOUR SECOND BEST FRIEND!!!
FUTURE CITY HANDBOOK

Formerly - “Scripts” were noted in the handbook and helped present Future City Material. There are still Activities available on the “resource” page of the website to help present the Future City Material.
The contents is set up to reflect Engineering Design Process: Define, Plan, Do & Review.

The deliverables don't each have their own section. You touch on the deliverable multiple times as part of the Engineering Design Process.

Additional information on the rest of the deliverables.

Nice to have competition day information together.

More information on the City Essay.
The Appendix is set up with a Deliverable and Competition Sections to quickly guide your teams to what they need. Starts Pg. 42

### Appendix: Deliverables

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>Project Plan</td>
</tr>
<tr>
<td>43</td>
<td>Project Plan Requirements</td>
</tr>
<tr>
<td>43</td>
<td>Project Plan Resources</td>
</tr>
<tr>
<td>44</td>
<td>Project Plan Template</td>
</tr>
<tr>
<td>53</td>
<td>City Essay</td>
</tr>
<tr>
<td>54</td>
<td>City Essay Requirements</td>
</tr>
<tr>
<td>54</td>
<td>City Essay Resources</td>
</tr>
<tr>
<td>55</td>
<td>Living on the Moon Overview and Research Questions Student Handout</td>
</tr>
<tr>
<td>57</td>
<td>Living on the Moon: Questions to Consider Student Handout</td>
</tr>
<tr>
<td>59</td>
<td>Living on the Moon Real-World Case Studies Student Handout</td>
</tr>
<tr>
<td>61</td>
<td>City Essay: Suggested Outline Student Handout</td>
</tr>
<tr>
<td>62</td>
<td>City Essay Rubric</td>
</tr>
<tr>
<td>65</td>
<td>City Model</td>
</tr>
<tr>
<td>65</td>
<td>City Model Requirements</td>
</tr>
<tr>
<td>66</td>
<td>City Model Resources</td>
</tr>
<tr>
<td>67</td>
<td>Build Your City Model Student Handout</td>
</tr>
<tr>
<td>69</td>
<td>City Model Rubric</td>
</tr>
</tbody>
</table>

### Appendix: Competition Information

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>72</td>
<td>City Presentation</td>
</tr>
<tr>
<td>72</td>
<td>City Presentation Requirements</td>
</tr>
<tr>
<td>72</td>
<td>City Presentation Resources</td>
</tr>
<tr>
<td>73</td>
<td>How To Make a City Presentation Video Student Handout</td>
</tr>
<tr>
<td>74</td>
<td>City Presentation Tips Student Handout</td>
</tr>
<tr>
<td>75</td>
<td>City Presentation Rubric</td>
</tr>
<tr>
<td>77</td>
<td>City Q&amp;A</td>
</tr>
<tr>
<td>77</td>
<td>City Q&amp;A Requirements</td>
</tr>
<tr>
<td>77</td>
<td>City Q&amp;A Resources</td>
</tr>
<tr>
<td>78</td>
<td>City Q&amp;A Practice Questions Student Handout</td>
</tr>
<tr>
<td>79</td>
<td>City Q&amp;A Rubric</td>
</tr>
<tr>
<td>80</td>
<td>Final Checklists Student Handout</td>
</tr>
<tr>
<td>81</td>
<td>Competition Rules</td>
</tr>
<tr>
<td>83</td>
<td>Scoring Deductions</td>
</tr>
<tr>
<td>84</td>
<td>Prizes and Awards</td>
</tr>
<tr>
<td>85</td>
<td>Finals Special Awards</td>
</tr>
<tr>
<td>89</td>
<td>Competition Expense Form Instructions</td>
</tr>
<tr>
<td>90</td>
<td>Regional Coordinator List</td>
</tr>
</tbody>
</table>
Preparing for the Competition

Prepare to Lead: A To-Do List for the Educator

This checklist is a compilation of the preparatory tasks successful educators do in order to ensure a great Future City experience for all involved—their students and themselves. Check off each box until you’ve completed the list and you can be sure that you’re ready to lead your team!

Getting Started

☐ Read this handbook in its entirety. It gives you a sense of the scope of the project, whom you need to be in touch with, how to find key information, and most of all, what the steps are for students to complete the project.

☐ Contact your Regional Coordinator and find out what your regional deadlines are. See if there are any meetings or other ways to check in and get questions answered.

☐ Register your team at futurecity.org/register.

☐ Complete the Home School Affidavit. If you are a home school educator, you will need to complete the Home School Affidavit Form to verify that your home school is operating in accordance with the laws in your state. The form is on page 88, or you can download a writeable PDF version at futurecity.org/resources (filter for Competition Forms & Project Plan).

☐ Create a preliminary schedule to lead your team through each step of the project, leaving time for contacting mentors and having them work with students as well as allowing a little wiggle room to meet the regional competition deadlines.
FUTURE CITY HANDBOOK – TEACHER QUICK START

Get advice from veterans, see page 6 and 7 of the handbook.

- New section at the beginning of the Handbook for Educators who are first-timers.
- Advice from veteran educators.
- Competing without academic standards.
The student handouts have been designed to support your success.

Pg.
44 Project Plan 1: Set Goals
46 Project Plan 2: Schedule
49 Project Plan 3: Check-Ins
51 Project Plan 4: Reflect
55 Overview & Research Questions
57 Questions to Consider
57 Living on the Moon – Real World Case Studies
61 City Essay: Suggested Outline
67 Build Your City Model
73 How To make a City Presentation Video
78 City Q&A Practice Questions
80 Final Checklist
RULES & SCORING DEDUCTIONS

Have students review pages 81 – 83 often and carefully!

Official Competition Rules

General
1. The Future City Competition is open to eligible 6th, 7th, and 8th grade students attending a public, private, parochial, home school environment, and from any region as determined by the Regional Coordinator. Students must be in the same school or organization.
2. Authoritative organization is defined as a recognized entity. Examples include: schools, youth organizations, or teams of students. Each organization must have a faculty sponsor.
3. Organizational review is necessary to determine if an organization is eligible to participate. The Regional Coordinator may defer review decisions.

Scoring Deductions

By completing all five deliverables, teams earn up to 200 points. Judges evaluate each deliverable in accordance with the rubrics. The score a judge assigns is final. In the event of a tie among the Regional Finalists, the Regional Coordinator will break the tie by determining which team is the winner.

Penalty Item Description
1. – 10 points Missing the submission deadline for a deliverable The deliverables must be received in accordance with deadlines set by the Regional Coordinator. Judges may use their discretion to determine if a deliverable is late.
10 points Exceeding City Essay word count Maximize up to 1,500 words.
15 points Competition Expense Form is missing or submitted late The Competition Expense Form, with receipts, must be submitted by the regional deadline.
6 points Missing team identification information in City Model Submission Teams must identify their future city’s name and organization.
15 points Exceeding City Model Submission size limit Slideshows may not exceed 25 slides. Teams may not add any slides that are not included in the template.
15 points Not adhering to City Model Submission text limits Teams cannot change the sizes of text boxes or include written content outside the approved text boxes.
15 points Exceeding the BMI limit or misrepresenting the values of materials used in the city model and/or video presentation The total scale of the materials used in the model, as well as those used in support of the video presentation (including visual aids, continuos, color slides, digitized printing, and other demonstrative aids) may not exceed BMI.
2 points Missing Honor Statement Each student team member, the advisor, and the mentor must electronically sign (and adhere to) the Honor Statement. Complete the form at futurecity.org/minor-rules-statements.htm.
15 points Unsportsmanlike conduct Failure to abide by the rules of the competition, or display unprofessional behavior.
4 points summarize deliverable Plagiarism If the deliverable is determined to be plagiarized, the team will score zero points for it.
Disqualification Destruction of another team’s model or presentation materials or actions that violate the rules of the competition.

At the conclusion of the competition, the Regional Coordinator has the final word on any dispute. At the Regional competition, the Regional Coordinator has the final word on any dispute. At the Regional competition, the Regional Coordinator has the final word on any dispute.
• Relaxed restrictions on parent lead teams if kids are distance learning

• The competition is eligible to those... “enrolled in a public, private, parochial, home school environment, or are led by a parent when their child is distance learning due to COVID-19, or are members of a nationally, regionally, or state-recognized organization...”
RULES UPDATES – TEAM ROLES

• For this virtual year, the 3 presentation students don’t have to be the same as the Q&A (or special awards) students

• Deliverables:
  – Project Plan (whole team eligible)
  – Essay (whole team eligible)
  – Model (whole team eligible)
  – City Presentation Video (3 official student presenters)
  – Q&A (3 pre-determined students)

“Official Team Members”

| Three kids who present on camera for video presentation |
| Educator and Mentor |
| Kids answer special awards questions |
UPDATES – REQUIRED FORMS

https://futurecity.org/resources?field_resource_category_target_id%5B82%5D=82

- All the forms (honor statement, media waiver, home school affidavit) will be submitted online

- If there’s a situation where an individual cannot complete a required document online, let us know and we’ll address on a case by case basis
• If there’s a tie, the team with the higher Q&A score will be awarded first place

• Following that (if there’s still a tie) the team with the higher presentation score wins

• Following that, (if needed) the highest model score will win
UPDATES – EDUCATOR OVERSIGHT

• The team’s educator must be present anytime team members meet virtually or in-person with their mentor

UPDATES – EXPENSE FORM/BUDGET

• The Competition Expense Form includes documentation of the Model, Video Presentation, Q&A, and special awards. This includes donated and borrowed items at fair market value.

• In future years we may increase the amount, but it will remain at $100 for this season.

• Materials used on screen in the Video Presentation (e.g. costumes and props) must be included in the $100 budget. Items like cellphones used for filming, cameras, and computers/editing, if used, do not need to be included in the budget nor listed on the competition expense form.
UPDATES – PRESENTATION DELIVERABLE

- The Presentation deliverable rubric is specifically designed to be focused on content over style
- Consider reminding your judges of this during their orientation

UPDATES – PRESENTATION (VIDEO DETAILS)

- The CMS will have a section where the educator submits a link to the team’s video
- Regions have autonomy in their video platform choice
  - We’ll provide a list of a few options/suggestions, but you can make the choice(s) that’s best for you, your judges, and your teachers
UPDATE - CITY MODEL DELIVERABLE

- Template layout follows order of the rubric
- The template will be available in both PowerPoint and Google Slides
Updates – Q&A Questions

• For the Q&A, judges will ask at least one question for each of the following categories (provided beforehand):
  – Engineering & Technology,
  – Teamwork & Collaboration,
  – City Systems, Operations, & City Design, and
  – Living on the Moon

  – Following these they can ask questions of their choosing

Updates – Materials for Q&A

• Screen sharing and videos are not permitted by the team in the Q&A

• The team *can* use physical visual aids (like posters from their presentation or the model/model segments – provided they are all within the $100 budget*)
UPDATES – VIDEO PLATFORM

- Finals will be using Zoom
- Regions can use a different video platform if they prefer (though we recommend Zoom) – more than one is also fine
  – If not Zoom, let us know what you’re planning to use
- HQ will be creating informational materials for Zoom – if you choose a different platform that needs different instructions, your region will need to properly inform teams and judges on use

Washington Region has been polling registered schools to determine video platform. Early indications trending to Zoom.
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 “Future City – Be a Mentor” 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/
ORGANIZING YOUR FUTURE CITY STUDENTS

- Official Presenting Team from One Club, School or Classroom (Three Students)
- Multiple Teams from One Club, School or Classroom (Multiple groups of three students)
- Other Team Format or Large Group – Club or Classroom Collective Effort (More than three students working together on one team)

Deliverables:
- Project Plan (whole team eligible)
- Essay (whole team eligible)
- Model (whole team eligible)
- City Presentation Video (3 official student presenters)
- Q&A (3 pre-determined students)
ORGANIZING YOUR FUTURE CITY STUDENTS

• See page 11 of your handbook for more details on how to organize your 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 three presenters (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 three presenters can participate in the questions and answers with the Judges during the City Q&A.
COMPETITION DELIVERABLE TIMELINE

- **Dec. 23rd** City Essay is due (there is a penalty if submitted later)
  Note – City essay deliverable is before Winter Break to help our teams and judges manage their time.
  - 5 pt deduction for submittals before Jan. 7, 2020
  - 10 pt deduction for submittals turned in between Jan. 8th and Jan. 11th

- While our deadline for City Essay is Dec. 23rd we will work with teams on what they can deliver and how they can be part of the Regional Competition.

- **Jan. 22nd** Project Plans, City Presentation and City Model Slide Show are due - Honor Statement, Media Waivers, and Home School Affidavit are also due at this time.

- Teams will need to monitor their progress.

- Teacher can assign earlier due dates for the deliverables if their students need more structure to the schedule.

- The Project Management Cycle of Future City will keep students on track. See the “Leading Your Team” section on the home page:

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*Proposed Schedule – not finalized yet*
# COMPETITION SCHEDULE / SUBMITTAL DEADLINES

**By October 31, 2020**

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

**Wednesday, December 23, 2020**

**City Essay** (1500 words)

*Note – submittal s are due before Winter Break to help our teams and judges manage their time.*
- 5 pt deduction for submittals before Jan. 7, 2020
- 10 pt deduction for submittals turned in between Jan. 8th and Jan. 11th.

**Friday, January 22, 2021**

<table>
<thead>
<tr>
<th>Submit on-line through CMS:</th>
<th>Final Team Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Plan</td>
<td>Competition Expense Form</td>
</tr>
<tr>
<td>City Presentation</td>
<td>Honors Statement</td>
</tr>
<tr>
<td>City Model Slide Show</td>
<td>Media Waiver Form</td>
</tr>
<tr>
<td></td>
<td>Home School Affidavit</td>
</tr>
</tbody>
</table>

**Sunday January 24th – Thursday January 28th**

Regional Preliminary Competition Week – Virtual

City Q&A (sign up for 2 preliminary rounds)

**Friday, January 29, 2021**

*Finalist Announced* (finalist will be revealed in virtual group meeting exact time TBD - PM)

**Saturday, January 30, 2021**

Regional Finalist Competition Day – All Teams & Guests invited to be part of this virtual experience

Finalist City Q&A

Guest Speaker

Awards – Team Recognition, Regional Awards and Finalists

**March/April TBD Virtual National Future City Competition**

If we qualify, our first place winner moves on to Nationals!
REGIONAL PRELIMINARY COMPETITION

- When
  - Saturday, January 24-28, 2021
- Where - Virtual
- Time
  - Teams will sign up for 2 separate City QA presentations

REGIONAL FINALS COMPETITION

- When
  - Saturday, January 30, 2021
- Where - Virtual
  - Time – TBD, suggesting 9AM-Noon or 1PM-4PM

Work with students and parents – regional finals is a commitment

See what our competition used to looks like:
https://www.youtube.com/watch?v=tTJ7j99TxEg
COMPETITION FORMAT – REGIONAL AWARDS

- 1. Best Overall Score for First Year School (score based)
- 2. Best Use of Scale (based on presentation & model) – The team that best utilizes the space allowable to build their city.
- 3. 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).
- 4. Best Community Services (based on presentation & model) - 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.
- 5. Most Spirited (based on presentation & model) – The team that had the best team spirit based on how well their presentation and model showed team collaboration, respect, and spirit.

Below are some ideas we are considering to support more regional awards for our team including partial competitors:

- Best overall city essay
- Most advanced technology in city essay
- Most creative virtual city presentation
- Most entertaining virtual city presentation
- Best virtual city presentation of students presenting together in a virtual format.
- Best virtual city presentation of students presenting separately in a virtual format and edited together
- Best virtual city presentation of students presenting together in person.
- Most graphically appealing project plan
COMPETITION FORMAT

- **Week Long “preliminary competition”**
  - Up to 3-5 teams from each school may compete*

- **Saturday “finalist competition”**
  - 5 finalists from the preliminary competition
  - Only one finalist from any individual school
  - All teams and guests invited

*Awards will be available at regional pick up locations or mailed to teachers.*

*Morning Round replaced with week long virtual preliminary competition*

*Afternoon finals replaced w/ 3 hour virtual meeting*

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

Engineering Design Process & Project Management Methods

Why did we redesign?

- Make program more accessible & streamlined for educators

10 of 11 pilot educators said the pilot offered an improved approach, stating it was:

- Clearer
- More linear
- Logical
- Practical
PROGRAM FRAMEWORK

Engineering Design Process

- Identify the Problem
- Learn the Specifications
- Brainstorm Solutions
- Design It
- Build It
- Test, Improve, Redesign
- Share It

Project Management Cycle

- Define
- Plan
- Do
- Review
[Refer to pages 4 in the Program Handbook!]
COMPETITION DELIVERABLES & CHANGES FROM LAST YEAR

1. Project Plan (Unchanged): 10 points
   Virtual City (gone): was 48 points
2. City Essay (2 pts less): 58 points
3. City Model (5 pts less): 65 points
4. City Presentation (10 pts less): 60 points
5. City QA (new): 25 points
VIRTUAL CITY – THIS DELIVERABLE IS GONE

If students would like to design a virtual city using SimCity software, you can request a free code.
VIRTUAL CITY

Resources for the teams: Washington Website
http://futurecity.org/region/simcity
- Installation Guide
- Playing in Offline Mode
- Setting Up Multiple Accounts
- Send any questions or comments to louis.tibbs@washingtonfuturecity.org
CITY ESSAY

Teams describe the unique attributes of their city and provide a solution to this year’s challenge:

Living on the Moon
The essay asks students to imagine what it would be like to live in the city they have imagined. What would they hear, see, smell, and feel? How would the people who live in this future city describe it? How is it different from a city in 2020?

The future lunar city is set at least 100 years in the future. It has already gone through many years of development. It started as a collection of lunar landers that expanded into an outpost. Gradually it grew into a village and is now a fully functioning city.

The students’ challenge
Design a future lunar city and provide examples of how your city uses two Moon resources to keep your residents safe and healthy.

https://www.youtube.com/watch?v=JqF4L6Vr1u0&feature=youtu.be

An Astronaut’s Message to Future City Teams
Ricky Arnold is a NASA astronaut and educator who has lived on the International Space Station. Check out his special message to Future City teams about designing a city on the Moon!
CITY ESSAY

- 1,500 words
- 58 points
- City Essay Due Date: Wed., Dec. 23, 2020 (penalty if submitted later)

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

- 5 pt deduction for submittals before Thu, Jan. 7, 2021
- 10 pt deduction for submittals turned in between Jan. 7th and Jan. 11th.

- Check out: Future City Living on the Moon Links and Blue Origin Club for the Future

https://futurecity.org/resources?field_reso urce_category_target_id%5B86%5D=86
CITY MODEL

New format for 2020-2021: To accommodate both in-person and virtual learning environments, there are two model building options for the 2020-2021 competition. Both options will be submitted via a slideshow format prior to the Regional Competition.

• Option 1: Your team can choose to build one single model.

• Option 2: Your team can choose to build multiple model segments. These model segments are separate pieces that represent various sections of the city. Model segments do not need to fit together physically.

After constructing the model or model segments, each team will complete a slideshow (using the provided template) that showcases their city via photos, a link to a short video of the moving part, and brief descriptions of their work. Slideshows will be scored by judges using the rubric on page 69.

Have students check out past cities in the Gallery page on the Future City website. Also check out photos from our Regional Website.

https://futurecity.org/gallery?fc_all_groups_1=All&field_year_target_id=All&field_competition_winners_target_id=All&field_gallery_type_target_id=27
CITY MODEL - SLIDESHOW

– Each team will submit one slideshow. They can use photos from any model segments made by their team.
– Teams will use the provided slideshow template, available at futurecity.org/resources (filter for Competition Forms & Project Plan).
– No slides may be added or deleted. Text in purple should be deleted before submission. Text in black should be left on the slides.
– Teams may not change the text box sizes in the slideshow template. All descriptions must fit within the box.
– The font size cannot be smaller than 14 and must be Calibri (or an equivalent) font.
– The model slideshow must be saved as a PDF and submitted in the Online Portal at FutureCity.org.

https://futurecity.org/city-model-slideshow-template
CITY PRESENTATION

New format for 2020-2021: Students record an up-to-7-minute video presentation that showcases their future city and solutions to the Living on the Moon challenge. The QA session with judges is now a separate deliverable.

✓ Video Presentation
✓ 50 points
✓ Due 1/22/2020 via CMS

Note: How to Make a City Presentation Video student handout: on page 73 and at futurecity.org/resources (filter for Handbook & Student Handouts). The ideas in this resource can serve as a starting point for your team to discuss how to format and film the presentation video.

Proposed Schedule – not finalized yet

https://futurecity.org/how-make-future-city-video-presentation
CITY PRESENTATION - EXAMPLE FORMATS

This list is not exhaustive. Other formats are allowed as long as they follow all rules and requirements. If you have questions about the City Presentation Video, please check the rules or email Info@FutureCity.org.

Note: Scores are based on content rather than production. A more expensive or professionally produced video won’t earn points based solely on production!

EXAMPLE 1
ZOOM, GOOGLE, OR SIMILAR VIDEO CHAT PLATFORM:
If your team is socially distancing, you might choose to record your three presenters during a video chat. Model segments or other visual aids can be held up to the camera by the presenters.

Don’t forget that many platforms have mobile apps. If a presenter doesn’t have access to a computer with a webcam, they may be able to record on a cell phone.

EXAMPLE 2
PRESENTERS TOGETHER/ONE CAMERA:
If your three presenters are physically together, you may choose to record them all at once. This can be done with any available tools (cellphone camera, computer webcam, etc.).

EXAMPLE 3
RECORD SEPARATELY:
You may choose to have each presenter film themselves separately, then have a team member edit the segments into one video. Remember that this editing needs to be done by a student member of the team (not an adult).
CITY QA

Three students will represent the team during a live 10-minute virtual question and answer session about their future city with judges from engineering and technical fields. Students should strive to demonstrate knowledge and understanding of all aspects of their project.

Preliminary Judging sessions will be scheduled by the region – details TBD.

City Q&A Practice Questions student handout: Available on handbook page 78 and online at futurecity.org/resources (filter for Handbook & Student Handouts). Students should also feel confident answering questions like those found in the Living on the Moon: Questions to Consider student handout, available on handbook page 57 or online at futurecity.org/resources (filter for Handbook & Student Handouts).

- Live Virtual Presentation
- 25 points
- Between Jan. 24-28th

Proposed Schedule – not finalized yet
PROJECT PLAN

Students work with their team to complete a four-part project plan to help them stay organized, focused, and on schedule as they complete their other Future City project deliverables.

✓ Handbook Appendix includes the student instructions and outlines for the project plans. Pages 42-52


✓ 10 points (No rubric. but 10 points for complete submittal, 5 points for incomplete plan and 0 points for not submitting a plan.)

✓ Due Jan. 22, 2021
  ✓ Upload as a single PDF!

Proposed Schedule – not finalized yet

https://futurecity.org/resource/project-plan Worksheets

Click here to download the 2020-2021 Project Plan Worksheets (Parts 1-4) and Instructions as a Word document.
PROJECT PLAN

PART 1. SET GOALS
Students describe what they hope to achieve by the end of the project. They also ensure that goals are realistic by considering resources, team roles, and assumptions.

PART 2. CREATE A SCHEDULE
Students plan how they’ll complete each deliverable.

PART 3. CONDUCT CHECK-IN SESSIONS
Students monitor their project’s progress to keep on schedule, meet their goals, and see where the plan needs tweaking.

PART 4. REFLECT ON THE PROJECT
Students reflect on what they did and how they did it, a great way to prepare for the competition and make their next projects easier.

DO: BUILD IT AND TEST, IMPROVE & REDESIGN

REVIEW: SHARE IT
COMMITTEE CONTACT INFORMATION

- Washington Future City Web Site Regional Committee Info: http://futurecity.org/region/commitee-0

- Regional Coordinator
  Karen Pavletich
  karen.pavletich@washingtonfuturecity.org / 425-462-3871