DELIVERABLE #5:
City Q&A

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. Judging sessions will be scheduled by your local region.

Engineers must understand the projects they are working on and be able to answer questions clearly and concisely. For this deliverable, students develop critical thinking and communication skills by answering questions that demonstrate an understanding of engineering and their future city.

City Q&A Requirements

• **Time allowed:** Teams will have 10 minutes to answer questions from a panel of judges during the virtual Regional Competitions.

• **Teamwork:** The three student representatives should share time equally and display a similar amount of knowledge and understanding of topics.

• **Team members:** The three representatives may be the same or different students who represented the team in the City Presentation.

City Q&A Resources

Use these resources to help students prepare to answer questions from the judges.

• **City Q&A Practice Questions student handout:** Students can get a sense of the kinds of questions the judges may ask by practicing with these questions. Available on 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 page 57 or online at futurecity.org/resources (filter for Handbook & Student Handouts).

• **Simulated Q&A sessions:** Practice answering questions via a virtual video conferencing platform so the students can figure out how to share time equally and develop a system to answer questions without speaking over each other.
City Q&A Practice Questions

During the City Q&A, judges will ask teams a variety of questions like the ones below. Refer to the City Q&A rubric for more information on how teams will be judged.

Engineering & Technology
- Did anything you learned about engineering surprise you?
- What types of engineers were involved in designing your future city on the Moon?
- How did you design and build the moving part for your model?
- How did the engineering design process help you create and develop your future city?
- What is an example of innovative technology in your team’s lunar city design?
- What resources did your team use to learn about engineering? Share something your team learned and how you applied it to your project.

Teamwork & Collaboration
- Did your team have any disagreements about your project? How did you solve them?
- What was the most difficult challenge you encountered while building the model segments or creating the video presentation? How did your team overcome this challenge?
- How did you divide responsibilities among your team members?
- Describe the process and schedule that your team used to create your future city.

City Systems & Operations
- What industries drive the economy in your city? What types of jobs are available?
- How does your city support low-income or vulnerable residents?
- What measures does your city take to prevent pollution and ensure sustainability?
- Describe your city’s transportation system. Is it public (like today’s trains and buses) or private (like an individual car) or a combination?
- What foods do your residents eat and where does the food come from?
- How do residents in your city communicate with each other?
- What does your city offer for entertainment and culture—arts, music, theater, dance, cinema, sports?

City Design
- What factors did you consider while laying out the zones in your city? Are the zones separate or mixed-use?
- Why is it important for a city to have a diverse population of residents?
- How does your city design ensure equal access and opportunity for people with disabilities?
- How does your city support a healthy lifestyle for its residents?

Living on the Moon
- What is something you learned about the Moon? How did you apply it to your future city?
- Where on the Moon is your city located? What are the benefits and drawbacks of your chosen location?
- How will your residential designs create comfortable places for people to sleep, eat, relax, and exercise?
- What two Moon resources did your team choose? How is your city’s use of these resources futuristic and innovative?
- How does the city obtain the two resources?
- How does your city protect your citizens against Moon hazards?