

## Discovery 7

### Future Cities Project Overview

#### Task #1 - Urban Planning

1. Fill out [some questions](#) about Urban Planning.

**Speech Ideas:** Talk about one of the issues related to Urban Planning in depth, Talk about one of the answers to your questions on the Urban Planning Application Test

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#### Task #1 Rubric

	90%	80%	70%
Development & Detail	Answers include support and detailed examples	Some answers include support and details	Few answers include support or details
Accuracy	Answer is correct	Answer is partially correct	Answer is incorrect
Sources	Each answer cites at least one source	Most answers cite a source.	Few or no sources cited.

**Future Cities**  
**Task #2 - A Detailed Look - Problems in Today's Systems**

[Future Cities Task #2 Additional Resources](#)

[Student Generated Future Ideas](#)

Cities have an infrastructure made up of systems that help them to support their citizens. These **systems** include education, transportation, economics, government, recreation/entertainment, environment, communication, health/medical, cultural/customs, technology, disposal systems/waterworks, etc.

**Research**

Choose ONE of the systems above. Identify THREE problems or limitations with that system today. Find 3-5 resources to support your ideas. Fully explain the problems and use at least one quote from your reading to support your opinion for each of the three problems.

**Possible Speech Ideas:** Talk about the problems in one of the urban systems that you think we should fix.

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	90%	80%	70%
Task 2	Earn a 25 in WPP Prompt; Includes sources; Describes problem in today's city systems	Earn a 22 in WPP Prompt; Includes sources; Describes problem in today's city systems	Earn less than 22 in WPP Prompt; May be missing sources or contain off topic information

## Future Cities

### Task #3 - City Solutions

[Future Cities Task #3 Additional Resources](#)

[Student Generated Future Ideas](#)

The systems of your city work together to create a hospitable community for its citizens. Describe the systems in your city.

The **systems** include education, transportation, economics, government, recreation/entertainment, environment, communication, health/medical, cultural/customs, technology, disposal systems/waterworks, etc.

#### City Solutions

Choose THREE different systems. Propose solutions to at least one of the problems for each system. Your solutions should be creative and take into account that your city is set 200 years in the future.

OPTIONAL: You also may illustrate the system or create items that would be found in the system you are describing (example: bionic cell hat for instantaneous brain communication with others).

**Speech Ideas:** Talk about one of the systems in your city or create a campaign speech in which you define the improvements you will enact while in office.

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	90%	80%	70%
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Task 3	Earn a 25 in WPP Prompt; Includes highly creative and futuristic solutions well supported with details and examples	Earn a 22 in WPP Prompt; Includes solutions well supported with details and examples	Earn less than 22 in WPP Prompt; May have underdeveloped ideas for solutions.
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## **Task #4 - The Test of Time**

### **Create a future history for your city.**

Describe 12 - 15 major events which occur in your city in the 23rd century. Consider including information regarding political, scientific and social leaders; technological advancements, and major natural and political events. You should also include information you have from TASKS #1, #2 & #3. The format for this section can be a timeline with descriptions or bullet points with descriptions. The events in your timeline or history should include events that describe the founding of your city, the advancements of your city and should show a sense of cause and effect rather than be isolated events. Wikipedia has [more info and some examples](#) from literature and other media.

### [Timeline examples](#)

- [Future Likelyhood Event Line](#)
- [Google Timeline](#)
- [September 11 Timeline](#)
- [Student Example](#)
- [Student Example #2 - Group Timeline](#)

### **How will I earn full credit for this assignment?**

- 15 or more events for individuals; 30 or more if you are working with a partner.
- Timeline has no more than 2-3 events before 2211; the rest should take place after.
- Clear, logical progression of events leading to city innovations described in Task #3B.
- Excellent descriptions that inform and make sense to those who do not know about your city.
- Additional information related to city founding, leaders, innovations, awards, major natural, social and political events

**OPTIONAL:**

- [Google Timeline Template #1](#)
- [Google Timeline Template #2](#)
- [Google Timeline Template #3](#)

Online [Timeline Maker](#)

**Speech Ideas:** As the historian for your city, follow the development of one of your systems or main ideas on which your city is based.

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**Task #4 Rubric**

	90%	80%	70%
<b>Development &amp; Details</b>	More than 15 events  Excellent descriptions that help your city to come alive	12-15 Events (per person if working in a group) No more than 3 events before 2215  Descriptions that inform and make sense to those who do not know about your city.	Fewer than 12 events and/or events are underdeveloped.  Limited description
<b>Creativity</b>	A sense that your city could be real and set far in the future	Additional information related to city founding, leaders, innovations, awards, major natural, social and political events  A sense of “voice” or “story” to your timeline of events	Timeline does not have elements of futuristic developments, technologies, or solutions.
<b>Coherence &amp; Organization</b>	Organization provides clarity of events and of flow of history	Clear, logical progression of events leading to city innovations described in Task #3B.	May lack elements of organization or clarity of flow.

## Task #5 - A Bird's Eye View

### Creat a 3-D map of your city.

A. Look at some examples of community maps.

- <http://www.csuchico.edu/community/map/>
- <http://www.xavier.edu/about/map.pdf>
- [http://www.miami.muohio.edu/documents/about-miami/Campus\\_Map\\_2010.pdf](http://www.miami.muohio.edu/documents/about-miami/Campus_Map_2010.pdf)
- [Illustrated Map Examples](#)
- Watch [the videos](#) related to city planning on Sketchup to see some ideas
- Some [example](#) downloads and buildings within Sketchup; Download file to your desktop and open with Sketchup Make software

B. (OPTIONAL) Draw a rough draft of your map on scrap paper. - Include major highways, mass transportation lines, rivers, residential, commercial, industrial areas, and parks.

C. Use Google SketchUp or another program to **design a 3-D representation of your city** OR use a city-building simulation program.

Be sure you include:

- major highways & mass transportation lines, (airports, buses, trains, roads, etc...; How will people arrive and leave your city?)
- rivers/water source, water treatment plant/plan, water and sewage management
- residential areas (single-family homes, apartments, condos, etc...)
- commercial areas (hardware, furniture, clothing stores, groceries, restaurants, etc...)
- industrial areas, (factories, food processing, etc...)
- governmental buildings, (schools, government centers, courthouse, jail, etc...)
- emergency services (police station, fire station, hospital, etc)

- three cultural/recreational centers (places of worship, concert stages, art galleries, parks, sports venues, etc...)
- monuments to important people or events

If your city does not need one of these things because you have "evolved past it" be sure to explain this in your paragraph - see part #D.

**D. Write a paragraph or two explaining how your city plan helps eliminate today's problems** with housing, pollution, and transportation. Tell how and why your city is different from modern-day cities.

**Other ways to get credit for this task:**

- [Citizen Science](#) will help you to better understand ecosystems and how humans can affect them.
  - Download a [free demo of one of the Civilization games](#) to your device while at home. You can play the game at school and write about what you have learned from playing.
  - If you are a member of the future cities team, you can use your copy of SimCity to build your city. Here are some [guidelines](#) to get you started.
  - Create your city in Minecraft
  - Do and record (take a pic or video) your participation in an [Urban Designer Challenge](#).
  - <https://diy.org/skills/urbandesigner/challenges/1323/build-a-city-in-a-game>
  - <https://diy.org/skills/urbandesigner/challenges/1313/draw-a-fantasy-neighborhood>
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## Task #5 Rubric

	90%	80%	70% or below
<b>MAP - Details &amp; Development</b>	Connections between innovations, cohesive approach in addition to the inclusion of all details. Represented in 3-D; well and logically zoned and arranged; aesthetically pleasing	<b>Includes the following:</b> <ul style="list-style-type: none"><li>• major highways &amp; mass transportation lines, (airports, buses, trains, roads, etc...; How will people arrive and leave your city?)</li><li>• rivers/water source, water treatment plant/plan, water and sewage management</li><li>• residential areas (single family homes, apartments, condos, etc...)</li><li>• commercial areas (hardware, furniture, clothing stores, groceries, restaurants, etc.)</li><li>• industrial areas, (factories, food processing, etc...)</li><li>• governmental buildings, (schools, government centers, courthouse, jail)</li><li>• emergency services (police station, fire station, hospital, etc)</li><li>• cultural/recreational centers (places of worship, concert stages, art galleries, parks, sports venues, etc...)</li><li>• monuments to important people or events</li></ul>	Lacking one or more details listed in 80% column

## Task #6 - Feature Focus

### Create a model of selected features of your city.

Choose any of the following projects or propose an alternative idea.

- Create one construction for your city, such as a house or apartment building, office building or commercial structure. Include detailed elements on the outside and inside of the building. Describe how your buildings help solve two or more issues such as pollution, parking, energy use, crime, etc. Include at least 3 futuristic aspects to your building.
- Design a convention center, stadium, or spaceport for your future city. Include detailed elements on the outside and inside of the building/structure. Include at least 3 futuristic aspects to your building. Explain how this structure is an improvement over present day structures.
- Design a mass transit system for your future city. Draw a detailed picture of your system and label it. Write a description of the improvements you have included in your transit system. Include at least 3 futuristic aspects to your building.
- Suggest an alternative idea to the teacher for approval.
- [Tiny House Project](#)

Resources:

- [Build a House with Frank Lloyd Wright](#)
  - [Google Sketchup](#)
  - [ElectroCity](#)
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**Final Presentation - Visual Focus (If you are interested in earning a 90% or higher on your presentation, it must be integrated, visual in nature, and clearly show cause and effect with innovations)**

**Use screen captures and other graphics with labels, when needed, to represent these main points:**

[Future Cities example](#)

[Example](#) of a highly visual presentation for future cities.

[Example 2](#)

### **7th Grade Future Cities Presentation Format Suggestions:**

**Intro Slide** - Name and founders of city

**Other Slides should cover:**

- Location of City (map - my city is here!)
- What are the foundational events?
- What events had the greatest impact/effectuated the most change in your city?
- How does your city improve on problems of today?
- What are the futuristic aspects or improvements of your city as shown on your map
- Where are the major zones and features of your city in relation to one another?
- How do the items you chose to build show innovations of the future?
- How are they an improvement over what we have now?
- Why is your city better than all the rest?
- Does your city have a theme song/logo/sports team/etc???
- Has your city been recognized for any special awards or honors?

**Last Slide** - Bibliography

- Include URLs of all sites and titles of all print resources used in your entire project.
- A formal bibliography gets you 5 points extra credit!

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**Old Plan - This is a more structured approach - without visuals and clear integration, the highest grade you can earn is an 89%.**

[Example](#) of a highly visual presentation for future cities.

Prepare a presentation about your city.

## **7th Grade Future Cities Presentation Format Suggestions**

**Slide #1** - Name and founders of city

**Slide #2** - Location of City (map - my city is here!)

**Slide #3** - City Theme (Task #2)

- Why is your city famous/awesome/the best?

**Slide #4** - 5-7 Main points of history (Task #4)

- What are the foundational events?
- What events had the greatest impact/effectuated the most change in your city?
- Do not include the entire history!

**Slide #5, 6 & 7** - Main points of 3 systems descriptions (Task #3)

- How will your city improve on problems of today?

**Slide #8, #9** - 3-5 Main points related to map (Task #5)

- Include screen capture or digital photos
- What are the futuristic aspects or improvements of your city as shown on your map
- Show and explain map to class

**Slide #10, #11** - Talking points related to city constructions (Task #6)

- Include screen capture or digital photos
- How do the items you chose to build show innovations of the future?
- How are they an improvement over what we have now?
- Show & explain constructions to class

**Slide #12** - Other info??

- Why is your city better than all the rest?
- Does your city have a theme song/logo/sports team/etc???
- Has your city been recognized for any special awards or honors?

**Slide #13** - Bibliography

- Include URLs of all sites and titles of all print resources used in your entire project.
- A formal bibliography gets you 5 points extra credit!