Computer Evaluation Sheet
(0-20 Points)

Students must use *SimCity 4 Deluxe* software to create their Future City. The Computer Design and completed Computer Evaluation Sheet must be submitted to your Regional Coordinator. Use the instructions on the reverse of this sheet to help you evaluate your Future City.

Future City Name: _____

Teacher Name: _____

Engineer-Mentor Name and Employer: _____

Engineer-Mentor Address: _____

Engineer-Mentor Email: _____

Engineer-Mentor Professional Society Affiliation: _____

School Name: _____

School Address: _____

School Phone Number/Fax Number: _____

Teacher E-mail Address: _____

Verified for Accuracy: _____ Date: _____
(Signed by either teacher or engineer-mentor)

Computer Evaluation of Your Future City
Each "yes" is worth 2 points—Maximum score is 20 points.

	Enter Values	Yes	No
1. Is the year of your finished city at least year 150 or above?			
2. Is your city size at least 50,000 (Population)?			
3. Is your city clear of any loans?	N/A		
4. Are your residential, industrial, and commercial tax rates all under 8%? List your max tax rate for each.	R= _____ I= _____ C= _____		
5. Is the average life expectancy of your Sims at least 62 years old or higher? (Health = 62 or higher)			
6. Is the education level of your Sims at least a high school level? (Education = 100 or higher)?			
7. Are the Sims happy with your performance as Mayor of your city? (Four or more city opinion polls are green)	N/A		
8. Are there no complaints from your Sims about traffic problems?	N/A		
9. Is the air pollution under control in your city?	N/A		
10. Do you have at least 2 connections to neighboring cities in your region?			

- Add number of check marks in the Yes column and multiply by 2.
Computer Evaluation Sheet Total Points (0-20)
- Insert numbers in "Enter Values" column.

Total Points (0–20)

Computer Evaluation Sheet Instructions

Instructions on how to locate the information for each of the 10 questions listed on the Computer Evaluation Sheet. Remember to list your "values" on the front of the Computer Evaluation Sheet (where applicable). For example:

- What is the year of your city? Enter value such as 150.
- What is the size of the population of your city? Enter value such as 55,000.

Question 1: To find out what year your city is, look on the bottom horizontal tool bar. If your city is 150 or later, mark yes in the column. Write the year in the values column.

Question 2: To find out the total population of your city, look on the bottom horizontal tool bar in the "Mayor Mode". If your total population is 50,000 or above, mark yes in the column. Write the population in the values column.

Question 3: In "Mayor Mode" Click "Budget Panel" tool and select "Monthly Income". Click "Take Out A Loan" to view any existing loans. If there are no loans mark yes in the column.

Question 4: In "Mayor Mode" click "Budget Panel" tool and select "Monthly Income". Click "Taxes" to view residential, commercial, and industrial tax rates. If the residential, commercial and industrial tax rates are 8% or lower, mark yes in the column. Write the max tax rates for each in the values column.

Question 5: Click "Graphs" and select "Life Expectancy" and read the corresponding number. If you see a Health number 62 or higher, mark yes in the column. Write the number in the values column.

Question 6: Click "Graphs" and select "Education" and read the corresponding number. If you see an Education number 100 or higher, mark yes in the column. Write the number in the values column.

Question 7: Click "Mayor Mode to view "City Opinion Polls" on the horizontal toolbar to view results. If at least 4 polls are "Green" then your Sims are happy with the Mayor's performance. Mark yes in the column.

Question 8: Click on the transportation advisor and see if he is reporting "no traffic problems". If there are "no traffic problems", mark yes in the column.

Question 9: Click Data Views, then select "Air Pollution". If city is 75% "Yellow or Clear" then pollution is under control. Mark yes in the column.

Question 10: View City for roads, highways and railways to see if there are at least 2 connections to neighboring cities. If there are at least 2 connections mark yes in the column.

Computer City Design Score Sheet
(0-80 Points)

Future City Name: _____

School Name: _____

The judging teams will complete this section. Judges will answer these questions and assign a point value of 0-5 points for each question.

City Layout	
1. Do the residential areas have higher property values? (0-5 points)	
2. Is there adequate coverage of (0-5 points) ❑ Police Stations ❑ Fire Stations?	
3. What is the life expectancy and education by age of the Sims? (0-5 points)	
4. Are there any factories located in the city? (0-5 points)	
5. Are there any high-technology industries located in the city? (0-5 points)	
6. Are there agricultural areas located in the city? (0-5 points)	
7. Are there sufficient forms of recycling and garbage disposal facilities located in the city? (0-5 points)	
Energy	
1. Is there power to all areas within the city? (0-5 points)	
2. Is there water to all areas within the city? (0-5 points)	
3. Is water pollution under control? (0-5 points)	
Transportation	
1. Are the Sims using the following public transportation systems? (0-5 points) ❑ Passenger Train ❑ Subway ❑ Monorail ❑ Bus ❑ Ferry	
2. What is the Sims average commute time? (20 minutes or less = 5 points) (0-5 points)	
3. Are the Sims using the freight train or freight truck systems? (0-5 points) ❑ Freight Train ❑ Freight Truck	
4. Is there a seaport and airport in the city? (0-5 points)	
Recreation	
1. Are there an adequate number of recreation areas in the city? (0-5 points)	
2. Have the Sims received any rewards? (0-5 points)	

- Please use whole numbers, not fractions.
- Please add all points together and write in score.

Total Points (0-80)

Computer City Design (0-80 Points)
Rubric Score Sheet Guide

_____
Judge's Name

Future City Name: _____

School Name: _____

Criteria	Rubric point scale						
	0	1	2	3	4	5	Score
City Layout Criteria 1. Do the residential areas have higher property values)?	Majority of city light red - very low values.	Majority of city red - low values.	Majority of city dark red - low to medium values.	Majority of city dark green - medium values.	Majority of city green - medium to high values.	Majority of city light green - high values.	
2. Is there adequate coverage of police stations and fire stations?	None.	Either some police coverage or some fire coverage.	Some police coverage and some fire coverage.	Adequate police and fire coverage. Not all populated areas covered.	Excellent coverage for either police or fire.	Excellent police and fire coverage. Interlocking circles for police and fire coverage.	
3. What is the life expectancy and education by age of the Sims?	Life expectancy of 30 or below and education by age of 40 or below for at least 5 age groups.	Life expectancy of 30 or more and education by age of at least 40 and above for at least 5 age groups.	Life expectancy of 40 or more and education by age of at least 40 and above for all age groups.	Life expectancy of 50 or more and education by age of at least 80 and above for all age groups.	Life expectancy of 60 or more and education by age of at least 120 and above for all age groups.	Life expectancy of 70 or more and education by age of at least 160 and above for all age groups.	
4. Are there factories located in the city?	None	Only 1 type of factory.	Only 2 different types of factories.	3 different types of factories.	4 different types of factories.	5 different types of factories.	
5. Are there high-tech industries located in the city?	None	Presence of one of any type.	Presence of one of any type (2 or more total buildings.	Presence of two of any type.	Presence of two of any type (4 or more total buildings.	Presence of three different types of high-tech industry.	

Computer City Design (0-80 Points)
Rubric Score Sheet Guide

Criteria	Rubric point scale						
	0	1	2	3	4	5	Score
6. Are there agricultural areas located in the city?	No farms	1 Farm	2 Farms	3 Farms	4 Farms	5 or more Farms	
7. Are there sufficient forms of recycling & garbage disposal facilities located in the city?	None	One form of garbage disposal with no recycling centers.	Two forms of garbage disposal and One recycling center used.	Two recycling centers and Two forms of garbage disposal used.	Three recycling centers and One form of garbage disposal used.	At least Five recycling centers used.	
Energy Criteria **1.** Is there power to all areas within the city?	No Power (0% Powered)	Large areas without power (Approx. - 1% to 50% Powered).	Many areas without power (Approx- 51% to 75% Powered).	Many areas with Power (Approx. - 76% to 95% Powered).	Small areas without power (Approx. - 96% to 99% Powered).	100% Powered.	
2. Is there water to all areas within the city?	No Water Systems (0% Watered)	Large areas without water systems (Approx. 1% to 50% Watered).	Many areas without water (Approx. 51% to 70% Watered).	Many areas with water systems (Approx. 71% to 90% Watered).	Small areas without water systems (Approx. 90% to 99% Watered).	100% Watered	
3. Is water pollution under control?	Overall picture is "red" for water.	Overall picture is "light red" for water.	Overall picture is "orange" for water.	Overall picture is "light orange" for water.	Overall picture is "orange" to "yellow" for water.	Overall picture is "light yellow" for water ="clean".	
Transportation Criteria **1.** Are the Sims using the following Public Transportation Systems? 1. Passenger Train 2. Subway 3. Monorail 4. Buses 5. Ferry	No coverage.	Sims using One public transportation system.	Sims using Two public transportation systems.	Sims using Three public transportation systems.	Sims using Four public transportation systems.	Sims using all Five public transportation systems.	
2. What is your Sims average commute time?	80 minutes or more.	70 minutes or less.	60 minutes or less.	50 minutes or less.	40 minutes or less.	20 minutes or less.	

Computer City Design (0-80 Points)
Rubric Score Sheet Guide

Criteria	Rubric point scale						
	0	1	2	3	4	5	Score
3. Are the Sims using the freight train and freight truck system?	No coverage.	Both or at least 1 white = minimal coverage, freight train OR freight truck.	Both or at least 1 light grey = average coverage, freight train OR freight truck.	Both or at least 1 dark grey = adequate coverage, using both systems or one system minimal coverage.	Both or at least 1 light blue = uniform coverage using 1 or both systems.	Both dark blue = uniform city-wide distribution of freight train and freight truck service.	
4. Is there a seaport and airport in the city?	Neither seaport NOR airport present.	Either a seaport OR landing strip.	Either a seaport OR small municipal airport present.	Seaport AND small municipal airport present.	Either seaport OR International airport present.	Both seaport AND International airport present.	
Recreation Criteria **1.** Are there an adequate number of recreation areas?	No recreational	One to Three recreational areas.	Four to Six recreational areas.	Seven to Eleven recreational areas.	Twelve to Fourteen recreational areas.	Fifteen or more recreational areas.	
2. Have the Sims received any rewards?	No rewards.	One reward.	Two rewards.	Three rewards.	Four rewards.	Five or more rewards.	
					Total Points (0-80)		