



## Virtual Smart Cities Lesson Plan – Create a Smart City / Silly City (ages 5 to 10 years old)



### Student Preparation – Lesson 1

- Have a computer with virtual meeting software or have received their “virtual packet” with items discussed below ahead of time.

### Teacher Preparation – Lesson 1

- Review Smart Cities video and lesson plan ahead of introducing concepts.
- Inform students of items needed to complete their independent work.

### Student Learning Objectives – Lesson 1

This lesson will do the following:

- Learn what a Smart City is
- Learn how to brainstorm for ideas that can make our cities smart
- Identify a problem that the students are interested in solving
- Identify solutions to solve problems to create their smart cities on paper

### More Info

Ages 5 to 10 years old – this overview will require adjusting to the unique needs of your students. You will use the Smart Cities [printout found here](#) or students can draw their own pieces.

## Session 1 – Smart City Brainstorming

60 minutes

Welcome and introduction

5 min

Provide an overview of Smart Cities from the Smart Cities [activity pack found here](#).

10 min

Provide an overview of what brainstorming is and ask important questions to encourage brainstorming.

5 min

Discuss and explain to students the concept of Smart Cities. Provide examples of what things are “smart” and what things are “silly”. You may choose to show the Smart Cities [video found here](#).

30 min

Provide instructions for creating a smart city / silly city by using the [printouts found here](#).

5 min

Q & A

5 min

### Student Preparation – Lesson 2

- Students will understand what makes a city “smart or silly”.
- Students will need creative items to complete the next step: pictures from printout, crayons / markers, scissors, glue / tape, other arts and craft items.

### Student Learning Objectives – Lesson 2

- Create a Smart City art project increasing understanding of how technology helps our cities become smarter.

## Session 2 – Self Guided

Independent work

Students create their smart cities / silly cities

Students will use items from the smart cities / silly cities printout, colored and cut out to create their cities on paper. Students may also use original artwork or images to create their cities.

Students spend time creatively exploring smart city concepts.

Additional information for this lesson can be found in the [STEM@CGI at Home Activity Pack](#).