

**Grades 3-12
Tech Lesson**

**7
DESTINATIONS
+ EXIT SLIP!**



Google Maps GPS Buddy

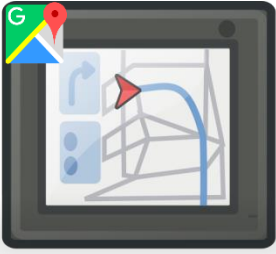
Common Core
Aligned with Scope
& Sequence (ISTE)



**Web-Based
Project-Based
Activity**

An illustration of two characters: a "GPS" character on the left and a "Driver" character on the right. The GPS character is a grey device with a screen showing a map and the word "GPS". The Driver character is a man in a suit and glasses. A speech bubble from the GPS character says "Head North on Main Street." A thought bubble from the Driver character shows a map with a blue arrow pointing north. A QR code is visible in the bottom right corner of the illustration area.

**Ready to use
Lesson!**



Mr. and Mrs. Rooster (TpT) © 2017



Google Maps GPS Buddy!

Elementary – Middle School Computer/Technology Lesson

Length: 4-6 Class Periods: 45 - 50 Minutes

Grades: 3-12

I. Standards:

ISTE Standard 1: Creativity and innovation: Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology.

ISTE.1.a. - Apply existing knowledge to generate new ideas, products, or processes.

ISTE.1.b. - Create original works as a means of personal or group expression.

ISTE.1.c. - Use models and simulations to explore complex systems and issues.

ISTE Standard 2: Communication and collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.

ISTE.2.a. - Interact, collaborate, and publish with peers, experts or others employing a variety of digital environments and media.

ISTE.2.b. - Communicate information and ideas effectively to multiple audiences using a variety of media and formats.

ISTE.2.c. - Develop cultural understanding and global awareness by engaging with learners of other cultures.

ISTE.2.d. - Contribute to project teams to produce original works or solve problems.

ISTE Standard 3: Research and information fluency: Students apply digital tools to gather, evaluate, and use information.

ISTE.3.a. - Plan strategies to guide inquiry.

ISTE.3.b. - Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media.

ISTE.3.c. - Evaluate and select information sources and digital tools based on the appropriateness to specific tasks.

ISTE.3.d. - Process data and report results.

ISTE Standard 4: Critical thinking, problem solving, and decision making: Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.

ISTE.4.a. - Identify and define authentic problems and significant questions for investigation.

ISTE.4.b. - Plan and manage activities to develop a solution or complete a project.

ISTE.4.c. - Collect and analyze data to identify solutions and/or make informed decisions.

ISTE.4.d. - Use multiple processes and diverse perspectives to explore alternative solutions.

ISTE Standard 5: Digital citizenship: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.

ISTE.5.a. - Advocate and practice safe, legal, and responsible use of information and technology.

ISTE.5.b. - Exhibit a positive attitude toward using technology that supports collaboration, learning, and productivity.

II. Objective:

A. Students will act as a personal GPS for a classmate and help him or her navigate to the predetermined destination.

B. Key Terms:

GPS (Global Positioning System) – [REDACTED]

1st Person Viewpoint (Street View) – the angle at which a person sees the world as if you were in their position.

2D Viewpoint – often the aerial view or “bird’s eye view” from which is present of a flat surface.

3D Viewpoint – an immersive view of objects that can be seen from several perspectives or angles, not just a flat surface.

Google Maps – an extensive online digital library of roads and geographic features presented in an interactive digital map.

Google Earth – a downloadable application that provides an extensive online digital library of roads and geographic features presented in an interactive three-dimensional environment. It includes many of the same features of Google Maps.

III. Anticipatory Set:

- A. Greet the class and before they log on to their computers, ask the students, “Who knows what a GPS is?” Additional questions: “What is a GPS used for? How does it work?”
- B. Take responses from several students, and then tell them, “Today, you will be working in pairs where one of you will act as a “GPS” and the other will be the “Driver”.”
- C. Guide students to the online instructions that are posted on your class page or Google Classroom.
- D. Make sure you posted the directions on your Google Classroom or website ahead of time.

*If you would like to have a post with the necessary directions, please look at the bottom of the document for the straight forward directions that can be copied and pasted directly onto your Weebly, Wiki, Google Classroom, or website for students to refer to during this assignment.

IV. Input:

A. Task Analysis

Delivery Option 1: Paper handout for use with online tools

1. You can print out the online directions so students may have a physical copy especially if there is no established class website. I would recommend printing out or displaying the class directions found at the bottom of this document, so students are able to see the step-by-step instructions.

Delivery Option 2: Digital (Recommended for an established Google Classroom)

1. Direct students to the Google Classroom (or class website) where you will have assigned the “Google Maps GPS Buddy” Lesson Plan. (Directions apply to both delivery options from here on.)

Round 1
Player 2: GPS Directions



Starting Location:

Warren Central High School
██████████, Indianapolis, IN 46229

Destination:

██████████ Community College
██████████, Indianapolis, IN 46216

Complete Directions:

URL: Here is the direct link to open the GPS directions to read to your driver.

<https://www.google.com/maps/dir/9500+E+16th+St,+Indianapolis,+IN+46229/9301+E+59th+St,+Indianapolis,+IN+46216/@39.8268481,-86.0475313,13z/am=t/data=!3m1!4b1!4m13!4m12!1m5!1m1!██████████>

Bitly Link:

http://██████████

QR Code:



End of preview.