

GPS Bingo

This activity will help reinforce the information taught about GPS.

Directions: Gather coins, candy, or other small items as game markers. Give the students a bingo card, word list, and game markers. They will need to select 24 of the 35 words and write one word per square on the bingo card. Randomly select questions and read them out loud. Have the students answer the questions silently, as an individual. A winner can be horizontal, vertical, or diagonal. After someone has bingo'ed, have them read their answers off.

Optional activities are having the students raise their hand and share the answer with the group as the questions are read. Also, as a winner reads the answers back, ask what the question was.

Note: Fifteen different bingo cards with words already in the squares are available online.

Questions	Answers
1. How many working satellites are in the GPS system?	24
2. This was an early navigational tool	Stars
3. Navigation Satellite Timing and Ranging acronym	NAVSTAR
4. Approximate life span of satellites in years	10
5. Process used to determine a precise location on Earth	Trilateration
6. Radio signal transmitted from GPS satellites	Pseudo random code
7. FAA system to increase GPS accuracy	WAAS
8. Who developed differential GPS or DGPS?	Coast Guard
9. Intentional degrading of GPS signal	Selective Availability
10. Involves frequency, precise time measurements	Timing
11. Process of monitoring something as it moves	Tracking
12. Worldwide game of hide and seek	Geocaching
13. Acronym for Global Positioning System	GPS
14. World's first artificial satellite	Sputnik
15. System the Navy developed in the 1960s	TRANSIT
16. Location of master control	Schriever Air Force Base
17. Approximate GPS satellite weight (in lbs)	2,000
18. Number of times a satellite circles the Earth daily	Two
19. Segment of GPS system that consists of users and receivers	User
20. Number of satellites required to calculate a 3D position	Four
21. Formula to calculate distance between satellite and location	Distance= Speed x Time
22. Coordinate lines that run north and south (Vertical)	Longitude
23. Coordinate lines that run east and west (Horizontal)	Latitude
24. Signal error caused by reflecting off buildings, water, etc	Multi-path

25. Type of clock located on satellites	Atomic clock
26. Accuracy with WAAS	3 meters or less
27. Term used to describe farms who use GPS and GIS	Precision Agriculture
28. Who uses GPS to mark good fishing spots?	Fishermen
29. Branch of government that invented GPS	Military
30. Point marked with GPS unit	Waypoint
31. GPS was first used in combat during	Operation Desert Storm
32. Page on GPS unit that has a compass	Navigation Page
33. Type of receivers Oklahoma 4-H has	Garmin
34. The 24 satellites make up a _____.	Constellation
35. Signals from the satellites travel at the speed of ___?	Light

4-H GPS BINGO CARD

		FREE SPACE		

GPS BINGO WORD LIST

Schriever Air Force Base

User

GPS

Two

Distance = Speed x Time

Stars

Coast Guard

Geocaching

Trilateration

2,000

Tracking

Longitude

3 meters or less

Fishermen

Military

24

Selective Availability

NAVSTAR

Multi-path

Latitude

WAAS

Pseudo random code

10

Garmin

Constellation

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Navigation Page

Operation Desert Storm

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TRANSIT

Four

Atomic Clock

Precision Agriculture

Light