

# D. Flipped classroom tools

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# Flipped classroom tools

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Edmodo



Google  
Classroom



Cloud storage

bitly

**Kahoot!**

socrative

**Plickers**

GeoGebra

SCRATCH

**IDroo**



Classcraft



Office 365



**KHANACADEMY**



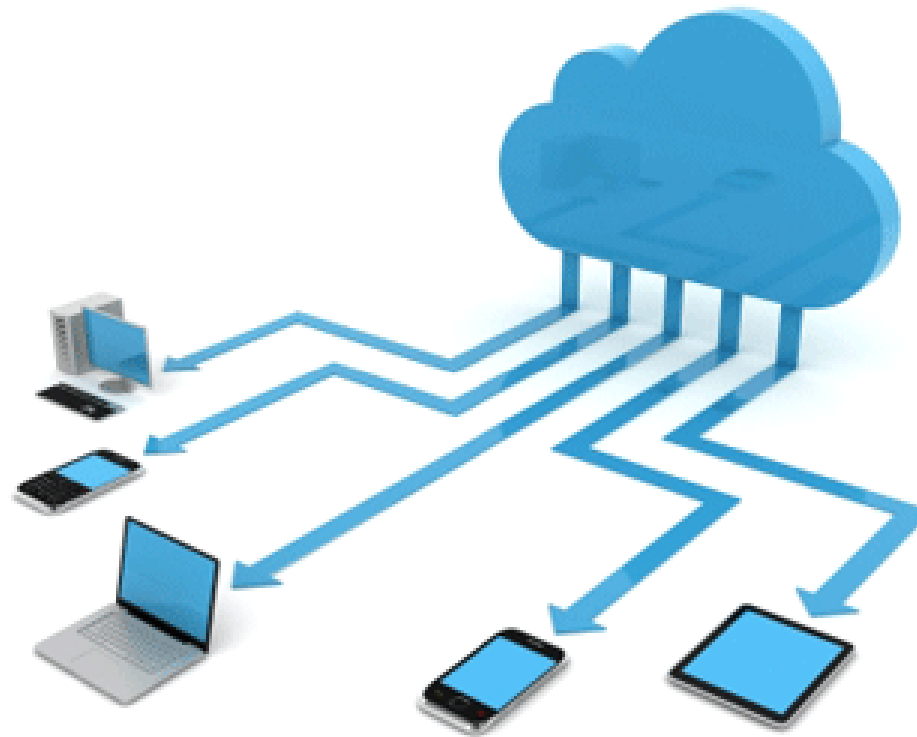
- communication, collaboration, and coaching platform
- sharing content
- distribute quizzes and assignments
- manage communication with students, colleagues, and parents
- teacher-centric

A screenshot of the Edmodo web interface. The top navigation bar is blue and contains icons for home, a pulse line, and a book, along with a search bar that says "Search posts, groups, users and more". The main content area is split into two columns. The left column is titled "Groups" and lists several groups, including "ICT in education" (highlighted in green), "7.d informatika", and "Mr. Pažin's 5th grade group". Below the list are buttons for "Manage Groups", "Create a Group", and "Join a Group". The right column shows the details for the "ICT in education" group, including the name "Mr. Pažin · Computer Technology" and tabs for "Posts", "Folders", and "Members 1". Below this is a form to create a new post, with tabs for "Note", "Assignment", "Quiz", and "Poll". The "Note" tab is selected, and the text input field contains "Type your note here...". A green button labeled "ICT in education" is visible below the input field. At the bottom of the form are icons for a document, a link, a book, and a "Send Later" option.

# Cloud storage

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- Files stored in a „cloud”
- Safe from disasters
- Non-stop online
- Easy sharing



 15GB  
Google Drive

 5GB  
OneDrive

 2GB  
Dropbox



- shorten links
- Customize links - easy to memorize

Paste a link to shorten it SHORTEN

[https://drive.google.com/open?id=0B4A6\\_xTOFn8BcTFCLTJpNzJXY0E](https://drive.google.com/open?id=0B4A6_xTOFn8BcTFCLTJpNzJXY0E)

[bit.ly/ictcourse](https://bit.ly/ictcourse)

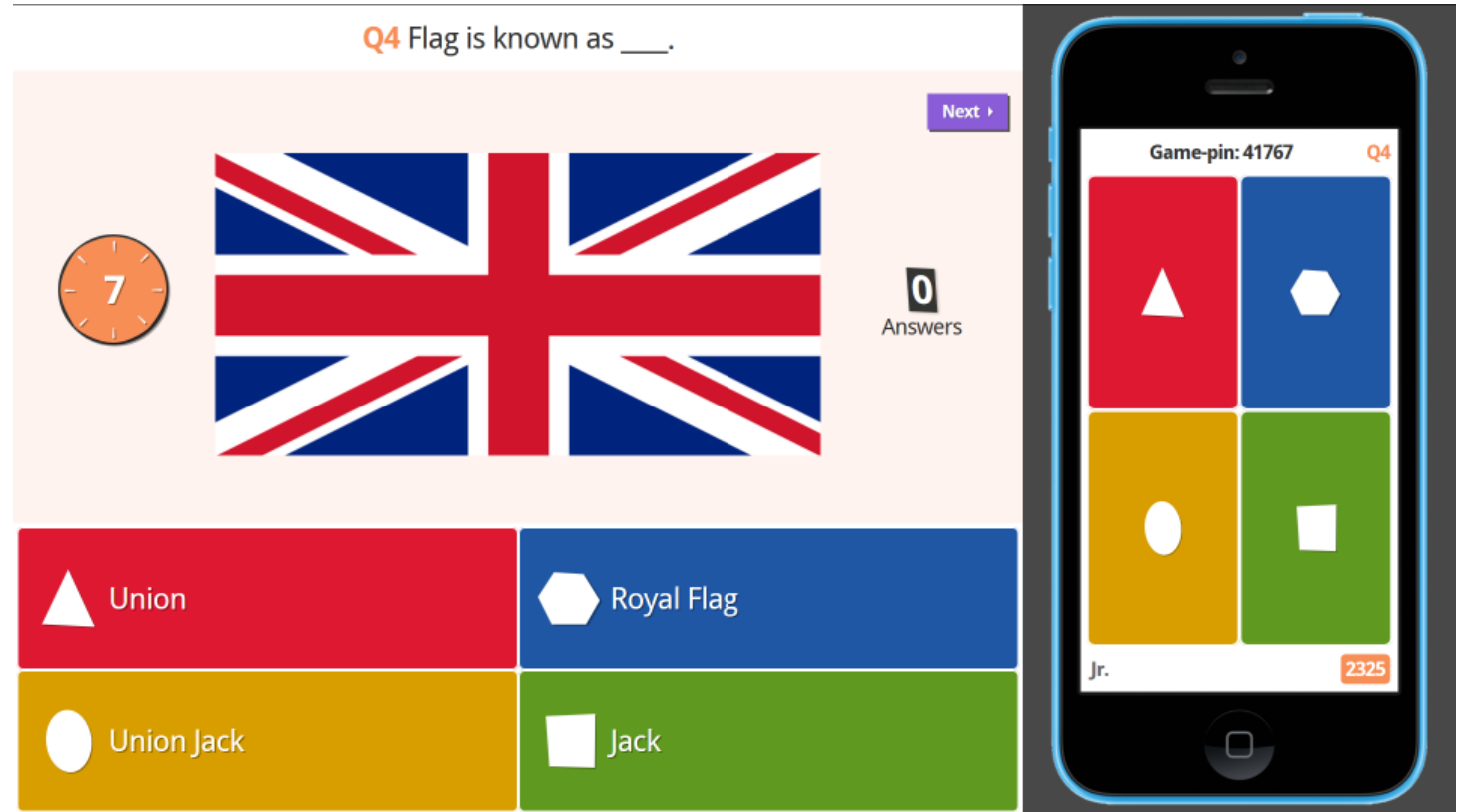
COPY

SHARE

EDIT

# Kahoot!

- Dynamic and fun quizzes
- 70M monthly users
- Dozens of millions of quizzes
- Easy to use



# Kahoot!

## Scoreboard



- Knowledge gamification
- Encourages competition
- Shows only top 5 players

Next

**Nathan**

**28,008**

**Susan**

**15,225**

**Marcus**

**12,100**

**James**

**9,001**



- Detailed results for performance analysis

6d results-1447320011715-e58a58d4-44ac-4beb-adc9-1f71fd8f980a.xls [Compatibility Mode] - Ex

File Home Insert Page Layout Formulas Data Review View Add-Ins Team Tell me what you want to do...

Cut Copy Paste Format Painter Clipboard

Arial 10 A A B I U Font

Wrap Text Merge & Center Alignment

General Number Styles

F22

	A	B	C	D	E	F	G	H
1								
2	STUDENT	CORRECT ANSWERS	INCORRECT ANSWERS	SCORE	imenom zove mo sve zlonamjerne	nastala kao skraćenica kojih	Nabroji sve vrste malvera?	samostalno širiti s računala na
3								
4	ante	15	1	13397	Malware	Malicious software	Virusi, crvi, trojanski	Ne može, treba ga č
5	lukinjo g	15	1	13203	Malware	Malicious software	Virusi, crvi, trojanski	Ne može, treba ga č
6	Marty	15	1	12760	Malware	Malicious software	Virusi, crvi, trojanski	Ne može, treba ga č
7	lea	15	1	12655	Malware	Malicious software	Virusi, crvi, trojanski	Ne može, treba ga č
8	mari	14	2	11941	Malware	Malicious software	Virusi, crvi, trojanski	Ne može, treba ga č
9	andrija!!!!!!!	14	2	11867	Malware	Malicious software	Virusi, crvi, trojanski	Može, sam se šalje
10	mijo	13	3	11405	Malware	Malicious software	Virusi, crvi, trojanski	Može, sam se šalje
11	ida	13	3	11094	Malware	Malicious software	Virusi, crvi, trojanski	Ne može, treba ga č
12								
13	<b>OVERALL PERFORMA</b>							
14								
15	% TOTAL COF	89%						
16	% TOTAL INC	11%						
17	AVG SCORE	12290						
18								
19	SWITCH TABS BELOW TO VIEW YOUR END OF GAME RATINGS & INDIV							





- Real-time visualization of students' performance
- Detailed reports of finished quizzes
- More diverse types of questions

Name	Progress	1	2	3	4	5	6	7
Dempsey, Clint	88%	C	Texas	False	A	D, A	C	True
Harkness, Jack	75%	C	Idaho	True	C	D, A	C	True
Mott, Wilfred	63%	C	Idaho	True	A	D, A	B	False
Noble, Donna	88%	C	ID	False	A	D, A	B	True
Oswald, Clara	75%	C	Idaho	True	A	D, A	B	True
Rosicky, Tomas	63%	B	Idaho	True	A	C, A	C	True
Tyler, Rose	63%	C	Idaho	True	A	D, A	B	False
Williams, Rory	63%	C	Wyomi...	True	C	D, A	C	True
Wunderbar, Jen...	100%	C	id	False	A	D, A	C	True
<b>Class Total</b>		<b>89%</b>	<b>78%</b>	<b>33%</b>	<b>78%</b>	<b>89%</b>	<b>56%</b>	<b>78%</b>

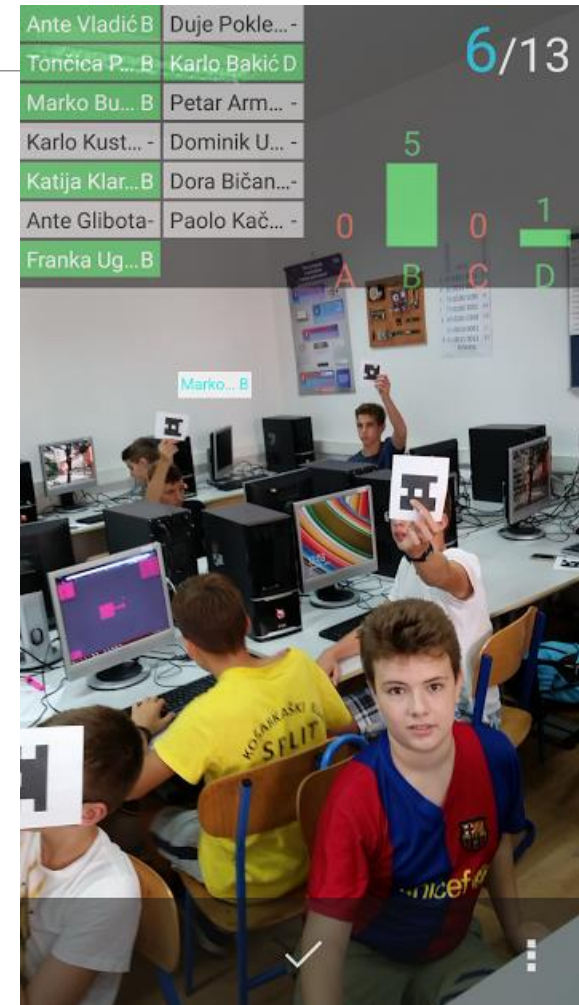


- Space-race competition
- Individuals or groups race across the screen with correct answers.

The screenshot shows a Socrative game interface titled "ROOM: socrative1" and "Space Race: State Facts". A "FINISH" button is in the top right. A "Dashboard" button is on the left, and a "Space Race in Progress..." indicator is on the right. The main area displays a race track with seven lanes, each representing a color: Blue, Magenta, Lime, Peach, Violet, Teal, and Indigo. Each lane has a rocket ship icon. The Teal rocket is the furthest along, followed by Peach, Indigo, Magenta, Blue, and Lime, which is the furthest behind.

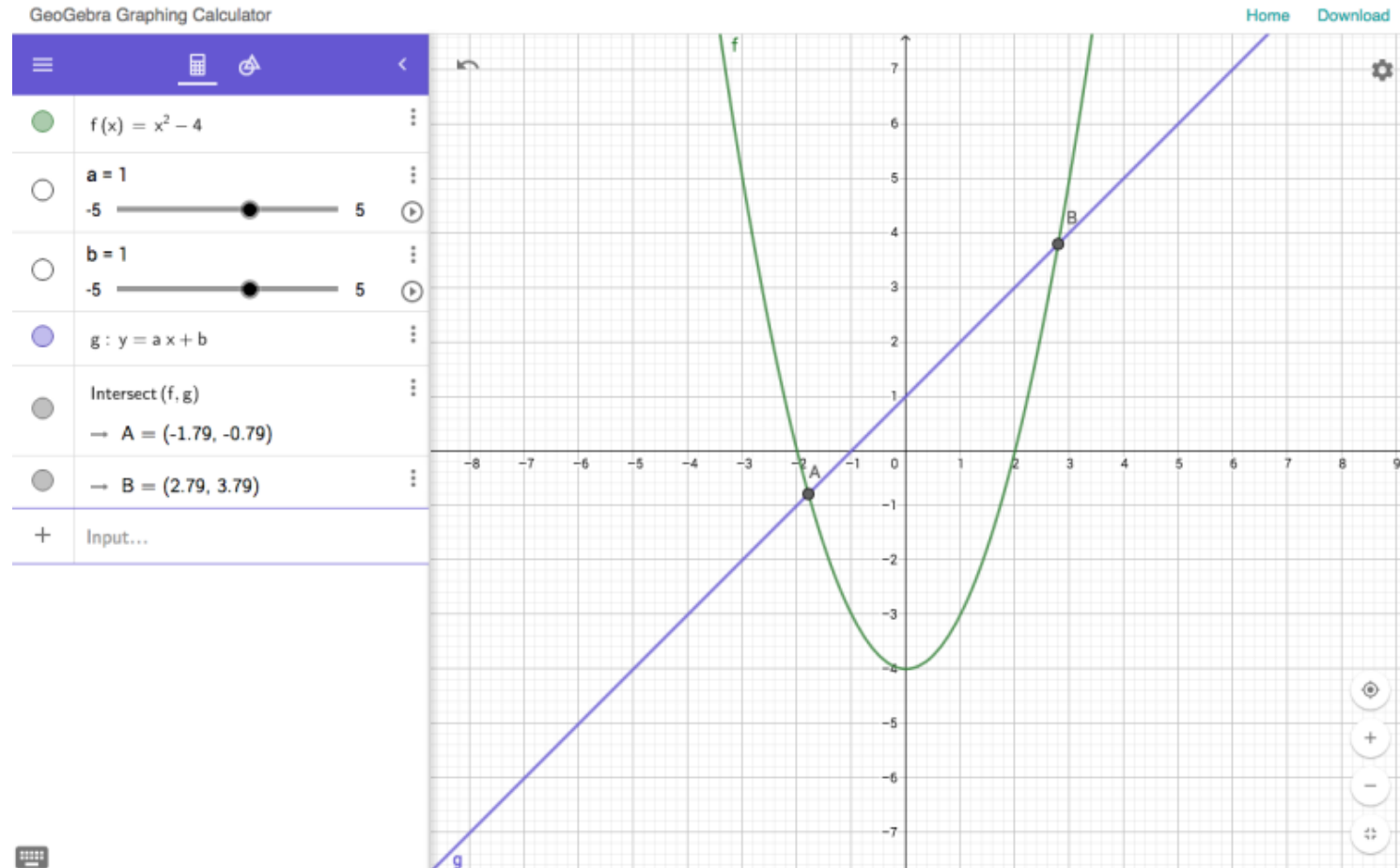
# Plickers

- Teacher uses one phone/tablet
- Students use cards for answering
- Real-time assessment



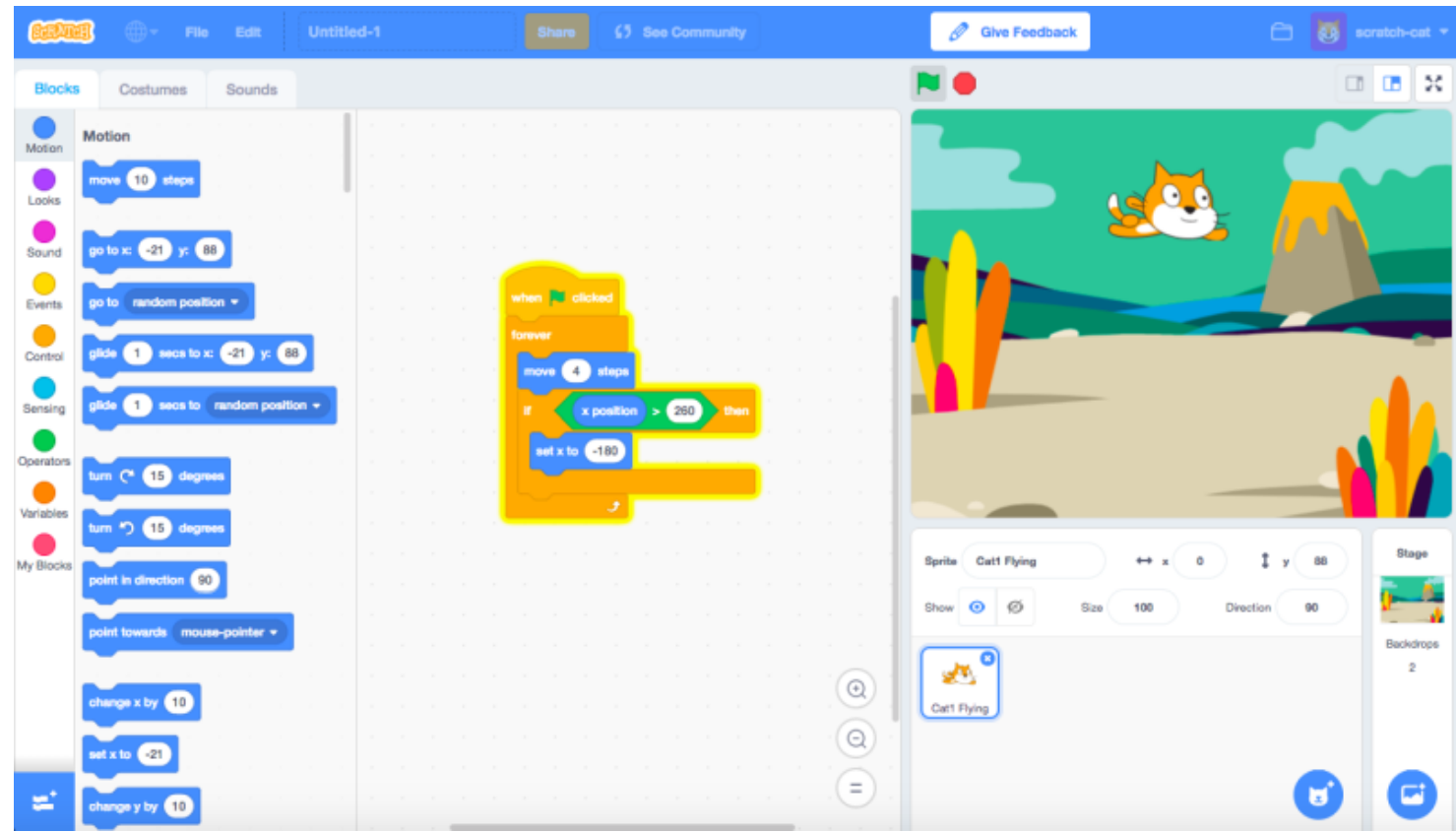
# GeoGebra

- Supports interactive geometry, algebra, statistics and calculus
- Can be used for teaching from primary school to university level



# SCRATCH

- Developed by MIT (Massachusetts Institute of Technology)
- Visual programming language
- Encourages the sharing, reuse and combination of code





- Online whiteboard
- Supports different geometrical shapes, text, Equations, Images and Documents
- Bord is endless in all directions

The image shows a large whiteboard filled with handwritten mathematical work in red and green ink. The work includes various algebraic equations, systems of linear equations, and geometric diagrams. A stick figure character is standing on the right side of the whiteboard, pointing at the content.

Key mathematical content visible on the whiteboard:

- Red Ink:**
  - System of equations:  $\begin{cases} -7y + x = 9 \\ -2x + 14y = 9 \end{cases}$
  - Equation:  $x^2 + 4x - 21 = 0$
  - Equation:  $3x + 2 = 5$
  - Equation:  $5y - 7x = 4$
  - Equation:  $6x - 4y = -9$
  - Equation:  $3x = -1$
  - Equation:  $7x = 2y$
  - Equation:  $5 = 3 + y$
  - Equation:  $5 + 3y = x$
  - Equation:  $5 + 3y - 7 = 2y$
- Green Ink:**
  - System of equations:  $\begin{cases} 3x + 5 = 2 \\ 3x = -1 \end{cases}$
  - Equation:  $7x = 2y = 4$
  - Equation:  $8y + 3x = 11$
  - Equation:  $7x + 9y = 4$
  - Equation:  $9x + 18y = 11$
  - Equation:  $2x = -1$
  - Equation:  $x = \frac{7}{2}$
  - Equation:  $x = \frac{7}{2}$
  - Equation:  $x = \frac{7}{2}$
- Geometric Diagrams:**
  - A diagram showing a rectangle with points P, T, and Q labeled.
  - A diagram showing a rectangle with points P, T, and Q labeled, and a line segment connecting P and T.



- Powerful gamification tool
- Students create and level up characters
- Teacher creates challenges (quests) and provides rewards or punishments

A screenshot of the Classcraft web application interface. At the top, it says "CLASSCRAFT Mathematics 101". Below this is a navigation bar with "PLAYERS", "TEAMS", and "CLASS" tabs. The "PLAYERS" tab is active, showing a list of student names. The selected player, Harry Audette, is highlighted. To the right of the list, a detailed character profile for Harry Audette is shown, including his class (Healer - Level 12), HP (30/80), AP (30/80), XP (3023/3023), and GP (3023). Below the stats are icons for "POWERS", "ITEMS", "BADGES", and "SENTENCES". A list of powers is displayed, including "Ambush" (-10 AP), "Counter Attack" (-15 AP, +100 XP), and "First Aid" (-20 AP). At the bottom of the profile, it says "You have 2 Power Points" and a "LEARN POWERS" button. On the right side of the interface, there are five player avatars with their names and stats: Stephanie Carmic... (30/30), Harry Audette (30/30), Alex Nault (30/30), Devin Young (30/30), and James Shetler (30/30). The main background image shows a character in a white and gold robe holding a staff, standing on a cliff overlooking a futuristic city with a tall spire.

# Office 365

- Latest Office programs
- Easy sharing of files
- 1TB size of OneDrive storage
- Annual subscription
- [Free for universities, colleges and schools](#)



Office 365  
dev.office.com

Extend. Connect. Open.

Microsoft

The graphic features a blue background with a white Office 365 logo and the URL 'dev.office.com'. Below the logo, there is an illustration of five diverse people sitting around a table with laptops, representing a collaborative work environment. To the right, a network of colorful lines connects various Office 365 application icons (Word, Excel, PowerPoint, Outlook, OneDrive, SharePoint, Teams, Yammer, etc.) to the central illustration, symbolizing integration and connectivity. The Microsoft logo is in the bottom right corner.





- Powerful virtual flipped classroom with integrated gamification
- Free, world-class education to anyone, anywhere
- Supplements in-class learning

