

# **Microsoft Copilot und MS Designer**

Mirko Colemanberg

# Chancen für KI in der Bildung

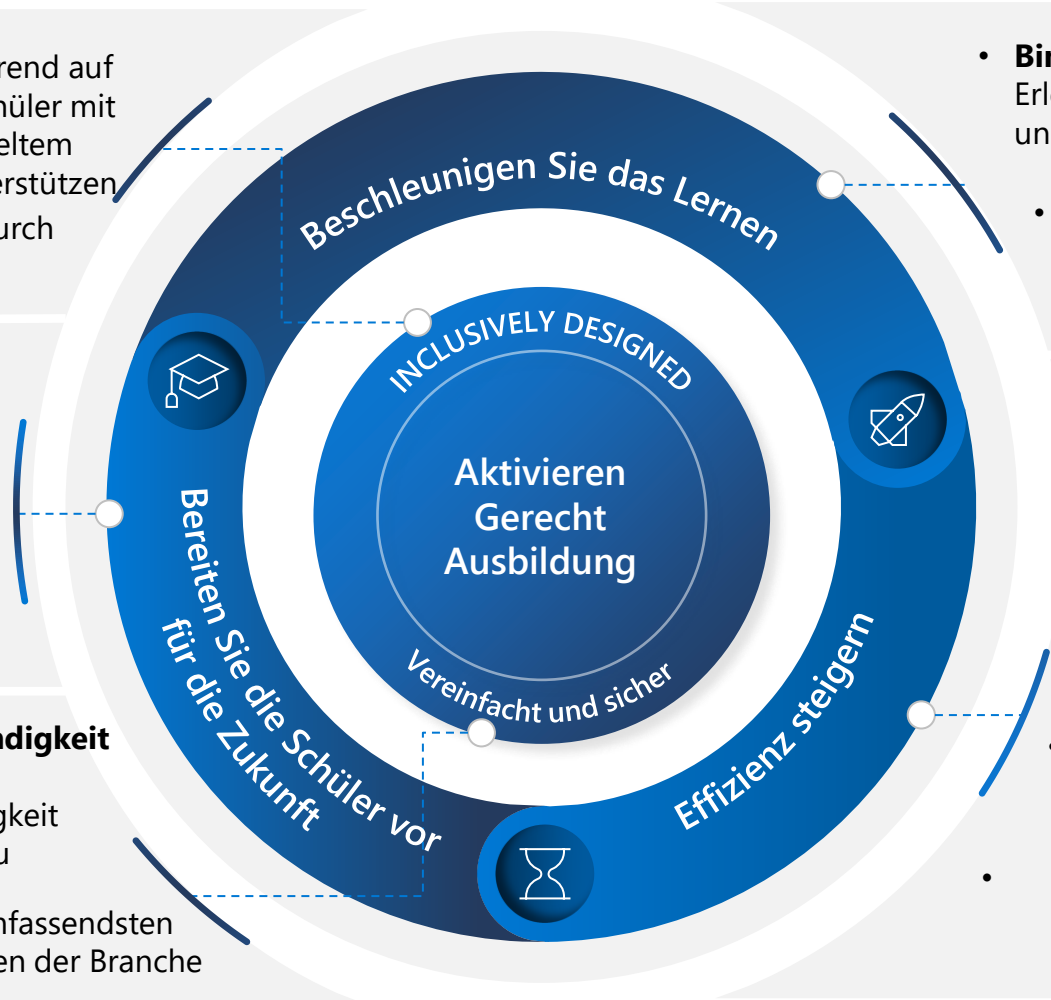
- **Personalisieren Sie das Lernen** basierend auf den individuellen Bedürfnissen der Schüler mit maßgeschneiderten Inhalten und gezieltem Coaching, um Verbesserungen zu unterstützen
- **Verbessern Sie die Barrierefreiheit** durch Übersetzung, Untertitel, Vorlesen und Spracheingabe

- **Bauen Sie die KI-Kompetenz** bei Mitarbeitern, Lehrkräften und Schülern aus, um einen verantwortungsvollen Umgang zu fördern und das Lernen effektiv voranzutreiben
- **Statten Sie Ihre Schüler** mit den Fähigkeiten aus, die sie benötigen, um in der Zukunft erfolgreich zu sein

- **Verteidigen Sie mit Maschinengeschwindigkeit** und profitieren Sie von verbesserter Erkennungsqualität, Reaktionsgeschwindigkeit und der Fähigkeit, den Sicherheitsstatus zu stärken
  - **Schützen Sie Ihre Daten** mit den umfassendsten Compliance- und Sicherheitskontrollen der Branche

- **Binden Sie Lernende ein**, indem Sie interaktive Erlebnisse, eine Starthilfe für kreative Prozesse und Echtzeit-Feedback bieten
- **Analysieren Sie Daten** effizient und liefern Sie umsetzbare Erkenntnisse aus unstrukturierten Daten aus verschiedenen Informationsquellen

- **Erstellen und passen Sie Inhalte für Unterrichtspläne**, Tests, Rubriken und mehr für jedes Thema, in jeder Sprache und für jedes Niveau an
- **Erweitern Sie die Supportdienste** durch die Möglichkeit, häufig gestellte Fragen zu beantworten, Ressourcen zu empfehlen und personalisierte Informationen bereitzustellen
- **Steigern Sie die Produktivität** und sparen Sie Ihren Mitarbeitern Zeit beim Schreiben, Suchen, Bearbeiten und Analysieren
- **Automatisieren Sie** Prozesse für administrative oder sich wiederholende Aufgaben wie die Verwaltung von IT-Helpdesk-Tickets, die Kursplanung und mehr



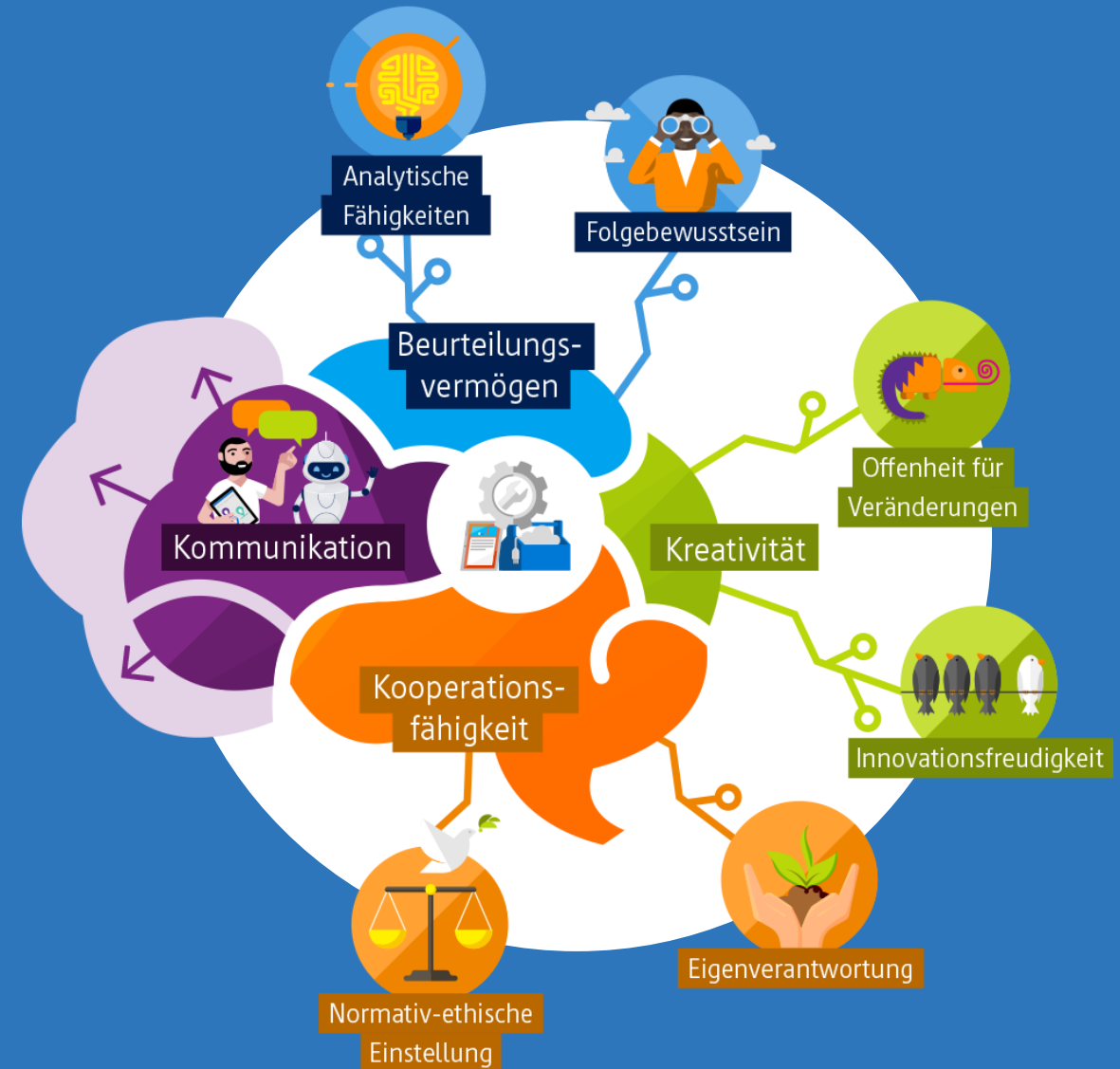
# Kompetenzen im Zeitalter von KI

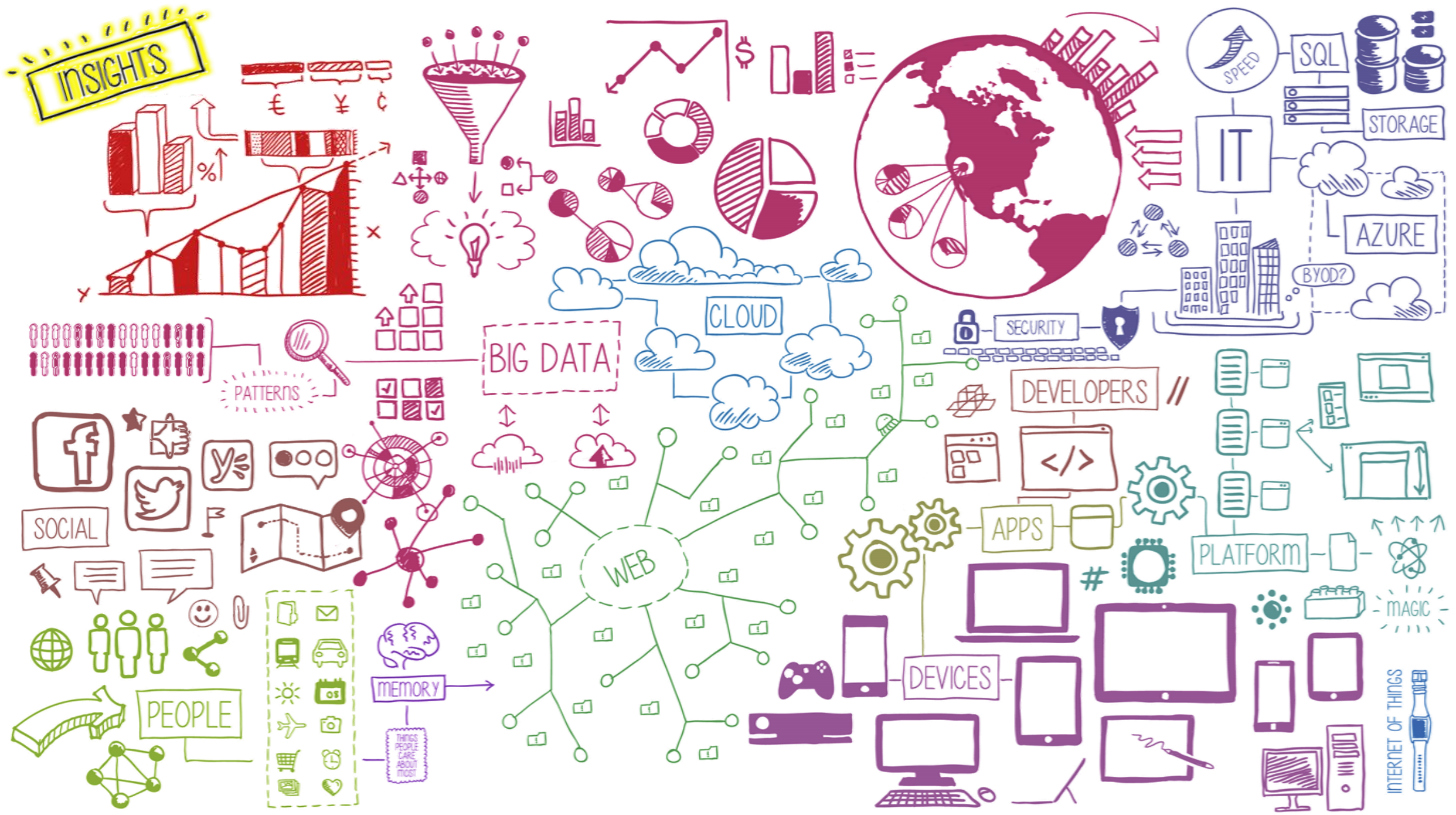
Welche Kompetenzen benötigen wir?



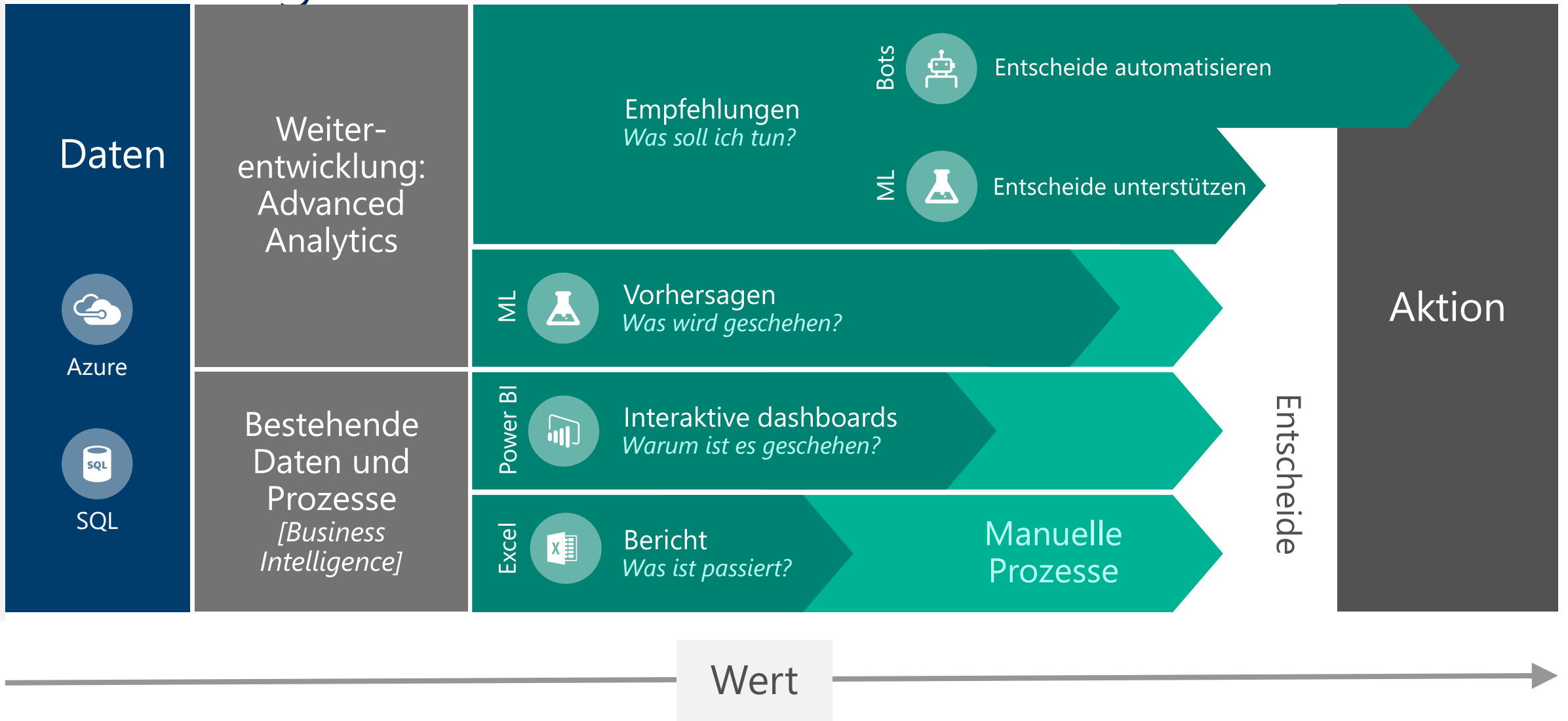
# Kompetenzen & KI

Das 21st Century Skills Framework beschreibt, dass **Communication**, **Collaboration**, **Critical Thinking**, und **Creativity** also die **4C** entscheidende Kompetenzbausteine in einer digitalen Gesellschaft sind. Doch das reicht in einer Welt von KI nicht aus.





# Mit Technologie schneller von Daten und Fakten zu Handlungen und Aktionen

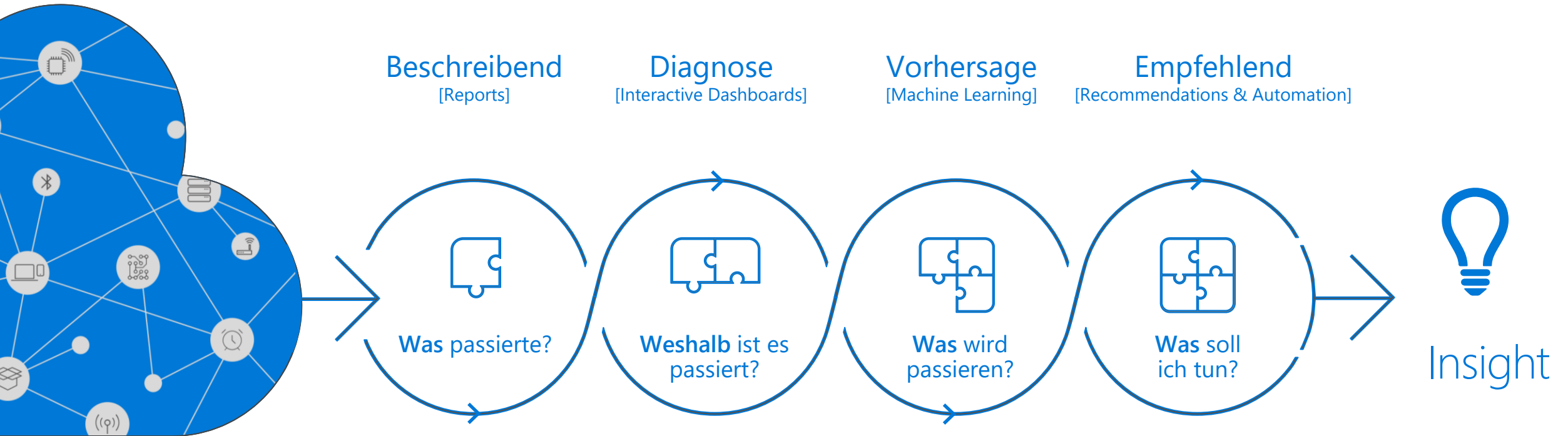


# Beispiel: Noten/Leistungsbeurteilungen



Nutzen

# Von Daten zu Entscheidungen hin zu Aktionen





# Vier Phasen der Datenreise in Schulen



SAMMELN

DARSTELLEN

VORAUSSAGEN

EMPFEHLEN (o. steuern)

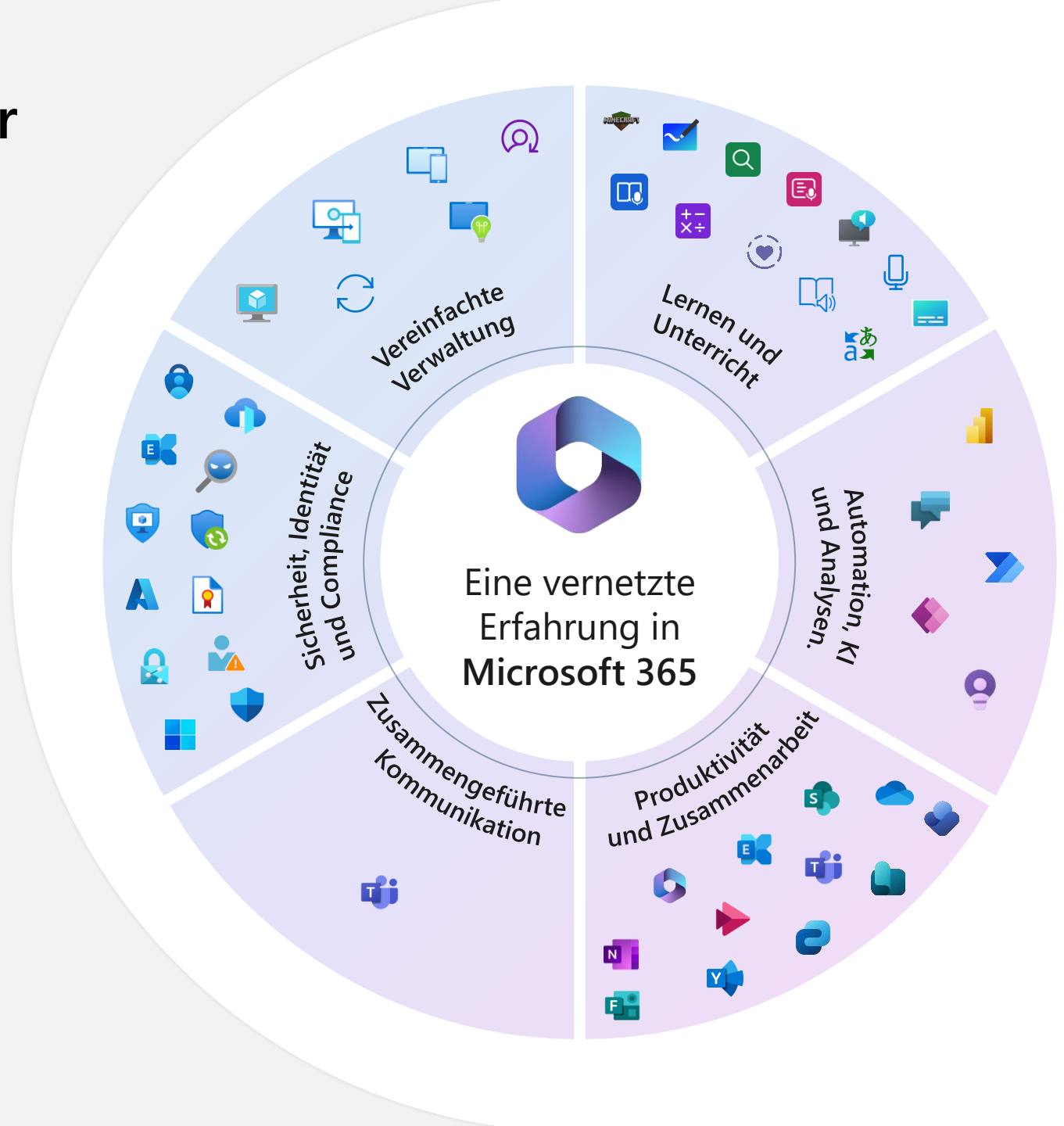


Insight



# Eine vernetzte Erfahrung für die Bildung

Microsoft 365 für den Bildungsbereich ist eine umfassende Plattform für das Lehren, Lernen und Arbeiten, die es Lernenden, Lehrkräften und der IT ermöglicht, mehr zu erreichen.



# Einführung von Lernbeschleunigern

## Grundlegende Fähigkeiten

## Zukunftsfähige Fähigkeiten

## Einblicke



Lesen

Rechnen

Wohlbefind  
en

Suchen

Redner

Einblicke

Progress &  
Reading Coach

Progress &  
Math Coach

Microsoft Reflect

Progress &  
Search Coach

Progress &  
Speaker Coach

Education  
Insights

## Learning Accelerators

### FOUNDATIONAL



Reading Progress and Coach



Reflect



Math Progress and Coach

### FUTURE-READY



Search Progress and Coach



Speaker Progress and Coach

### ANALYTICS



Education Insights

## Instructional Tools



Teams for Education



Microsoft Word



Microsoft Excel



Microsoft PowerPoint



OneNote Class Notebook



Microsoft Forms



Microsoft Stream



Microsoft Whiteboard



Minecraft Education



Flip



Clipchamp

## Accessibility Solutions



Immersive Reader



Translator



Narrator



Voice Typing



Live Captions

## Core Components

### Platform



Windows 11



Education Devices

### Management



Intune for Education



Azure Active Directory



School Data Sync

### Security



Microsoft Defender



Defender for Endpoint



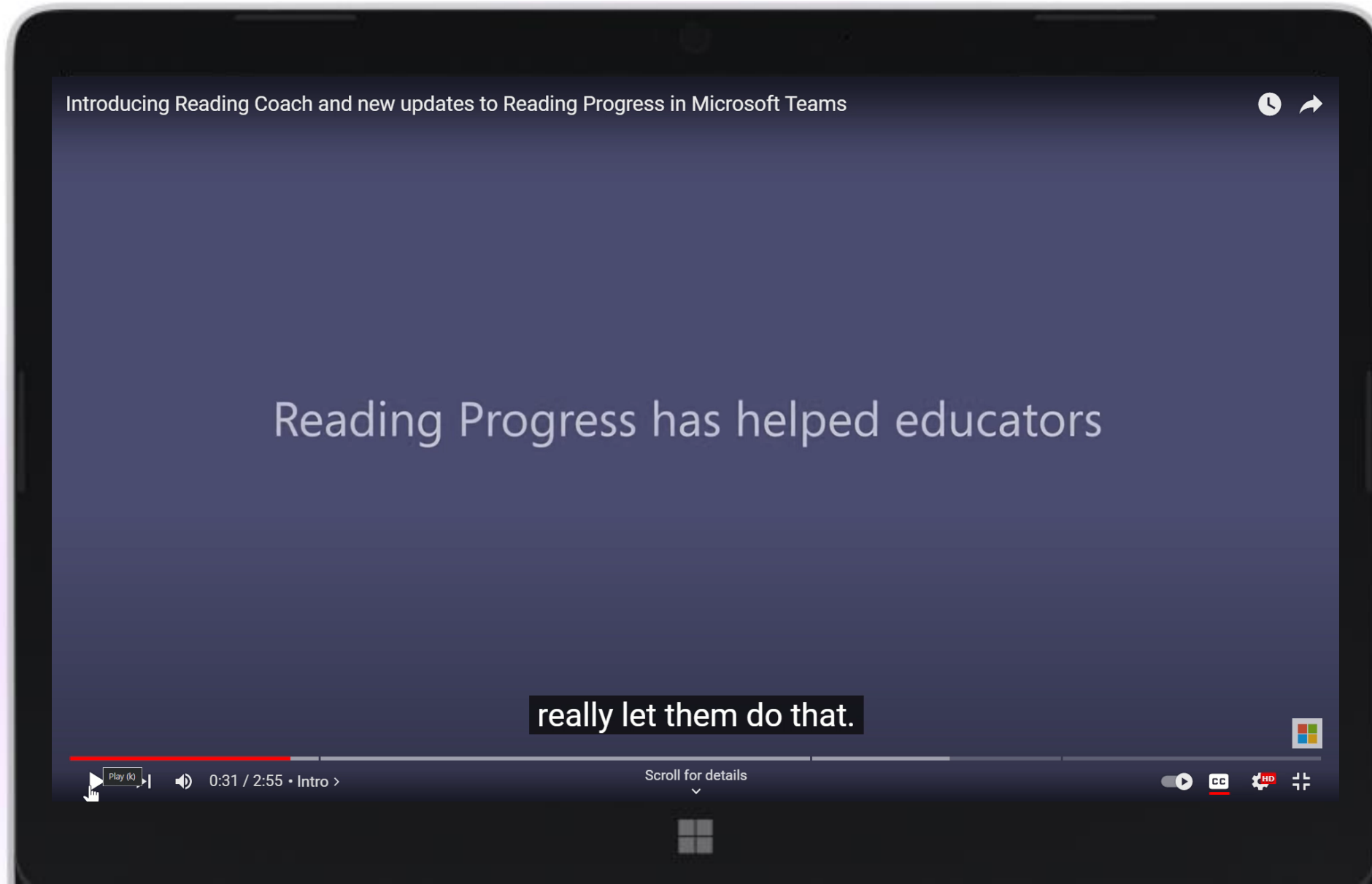
Microsoft Sentinel



Microsoft Purview

# Microsoft 365 Education

# Der Lesecoach nutzt KI, um personalisiertes Lernen zu ermöglichen



# Reading Progress – Expression

Available now (English, Spanish, French, German)

The screenshot shows the Microsoft Teams interface for the Reading Progress application. The top navigation bar includes the Microsoft Teams logo, a search bar, and a user profile icon. The left sidebar contains navigation options: Activity, Chat, Teams, Assignments, Calendar, Files, and Apps. The main content area is titled "Reading Progress" and features a video player showing a student wearing headphones. Below the video, there are settings for "Auto-Detect accuracy" (checked), "Pronunciation sensitivity" (set to Low), and a "Return full report to student" button. The central panel displays performance metrics for "Scarlet Laurie": 41 Correct words per minute (+4%), 83% Accuracy rate (+4%), and 5 Practice words. A breakdown of errors shows 5 Mispronunciations, 2 Omissions, 1 Self-correction, 1 Insertion, and 0 Repetitions. The text being read is about physical geography, with words like "landforms", "glaciers", "atmosphere", "the", "combination", and "physical" highlighted. The right sidebar shows a "Student work" section with a "View history" link and a "Feedback" section with a text input field and a "Return" button. A "Points" section shows a progress bar for 100 points.

Microsoft Teams

Reading Progress

Scarlet Laurie

Accuracy | Expression | Comprehension

41 +4%  
Correct words per minute

83% +4%  
Accuracy rate

- 5 Mispronunciations
- 2 Omissions
- 1 Self-corrections
- 1 Insertions
- 0 Repetitions

5  
Practice words

Preview  
Auto-Detect accuracy

Pronunciation sensitivity  Low

Return full report to student [Edit](#)

The study of Earth's **landforms** is called physical geography. Landforms can be mountains and valleys. They can also be **glaciers**, lakes, or rivers. Landforms are sometimes called physical features. It is important for students to know about the physical geography of Earth.

The seasons, the **atmosphere** and all **the** natural processes of Earth affect where people are able to live. Geography is one of a **combination** of factors that people use to decide where they want to live.

The **physical** features of a region are often rich in resources. Within a nation, mountain ranges become natural borders for settlement areas. In the U.S.,

Student work  
Not turned in [View history](#)

Geography of the Earth

Feedback  
Enter feedback

Points  
 / 100

Return

View all of Scarlet's reading data

# Comprehension Questions – Teacher creation

Release timing: August 2023

The screenshot shows the 'Reading Progress' interface in Microsoft Teams. The top navigation bar includes a search bar and a user profile icon. The left sidebar contains navigation icons for Activity, Chat, Teams, Assignments, Calendar, Files, and Apps. The main content area is titled 'Reading Progress' and features a 'Close' button and a 'Next' button. Below the title, there are links for 'Choose a different passage', 'Edit', and 'Student view'. The central text area displays a passage titled 'Geography of the Earth' with a word count of 209 words and the language 'French (Canada)'. The passage text is as follows:

The study of Earth's landforms is called physical geography. Landforms can be mountains and valleys. They can also be glaciers, lakes, or rivers. Landforms are sometimes called physical features. It is important for students to know about the physical geography of Earth.

The seasons, the atmosphere and all the natural processes of Earth affect where people are able to live. Geography is one of a combination of factors that people use to decide where they want to live.

The physical features of a region are often rich in resources. Within a nation, mountain ranges become natural borders for settlement areas. In the U.S., major mountain ranges are the Sierra Nevada, the Rocky Mountains, and the Appalachians.

Fresh water sources also influence where people settle. People need water to drink. They also need it for washing. Throughout history, people have settled near fresh water. Living near a water source helps ensure that people have the water they need. There was an added bonus, too. Water could be used as a travel route for people and goods. Many Americans live near popular water sources, such as the Mississippi River, the Colorado River and the Great Lakes.

Mountains and deserts have been settled by fewer people than the plains areas. However, they have valuable resources of their own.

The right sidebar contains configuration options for the reading activity:

- Reading level: 700L
- Genre: Nonfiction
- Number of attempts: Unlimited
- Time limit: 5 minutes
- Pronunciation sensitivity: Default
- Require video: Yes (toggle on)
- Reading Coach: On (toggle on)
- Comprehension: No (toggle off)

# Comprehension Questions - Teacher creation

Release timing: August 2023

The screenshot displays the Microsoft Teams Reading Progress interface. On the left is a navigation sidebar with icons for Activity, Chat, Teams, Assignments, Calendar, Files, and Apps. The main area is titled "Reading Progress" and includes a search bar and "Close" and "Next" buttons. A "Back" link is visible above the text passage.

**Geography of the Earth**  
209 words | French (Canada)

The study of Earth's landforms is called physical geography. Landforms can be mountains and valleys. They can also be glaciers, lakes, or rivers. Landforms are sometimes called physical features. It is important for students to know about the physical geography of Earth.

The seasons, the atmosphere and all the natural processes of Earth affect where people are able to live. Geography is one of a combination of factors that people use to decide where they want to live.

The physical features of a region are often rich in resources. Within a nation, mountain ranges become natural borders for settlement areas. In the U.S., major mountain ranges are the Sierra Nevada, the Rocky Mountains, and the Appalachians.

Allow student to preview questions before reading

**Geography of the Earth**

1. What are Landforms sometimes called?

- Physical features
- Canyons and lakes

[+ Add option](#)

Points: 0  Multiple answers  Required ...



# Comprehension Questions – Student view

Microsoft Teams

Search

Geography of the Earth

Close

Complete the questions using information from the passage

## Geography of the Earth

1. What is the study of Earth's landforms called?

- Physical landforms
- Physical geography

2. What are physical features of a region often rich in?

Enter answer

2. Name a river most American's live near?

Enter answer

Help

# Comprehension Questions – Teacher Review

Release timing: August 2023

The screenshot displays the Microsoft Teams interface for a teacher reviewing a student's work. The top navigation bar includes the Microsoft Teams logo, a search bar, and a user profile icon. The left sidebar contains navigation icons for Activity, Chat, Teams, Assignments, Calendar, Files, and Apps. The main content area is titled "Reading Progress" and shows the student's name, "Ella Taylor". Below the name, there are tabs for "Accuracy", "Expression", and "Comprehension". A large box displays the student's progress: "01:58" (Time to complete) and "33%" (Score). A green checkmark indicates "Correct" for the first question: "1. The physical features of a region are often rich in?". The student has selected "Resources" (marked with a green checkmark) and "Soil" (unselected). The score for this question is "0 / 10 pts" and it is "Auto-graded". The second question is "2. What is the study of the Earth's landforms called?". The student has entered "Plates" in the text box. The score for this question is "0 / 10 pts". On the right side, there is a "Feedback" section with a text input field labeled "Enter feedback" and a "Return" button. Above the feedback section, there is a "Student work" section with a dropdown menu showing "Taylor, Ella" and a "View history" link. Below that, there is a "Geography of the Earth" assignment card. A "Cancel" button is located at the top right of the main content area.

Microsoft Teams

Reading Progress

Ella Taylor

Accuracy | Expression | Comprehension

01:58  
Time to complete

33%  
Score

✓ **Correct**

1. The physical features of a region are often rich in?

Resources ✓

Soil

0 / 10 pts

Auto-graded

✗ **Incorrect**

2. What is the study of the Earth's landforms called?

Plates

0 / 10 pts

Cancel

Taylor, Ella

Student work

Not turned in [View history](#)

Geography of the Earth

Feedback

Enter feedback

Points

/ 100

Return

# Comprehension Questions - Generate with AI

Private preview in September

The screenshot displays the 'Reading Progress' interface. On the left is a navigation sidebar with icons for Activity, Chat, Teams, Assignments, Calendar, Files, and Apps. The main content area is titled 'Reading Progress' and includes a search bar, a user profile icon, and 'Close' and 'Next' buttons. Below the title are navigation options: '< Choose a different passage', 'Edit', and 'Student view'. The selected passage is titled 'Geography of the Earth' and is 209 words long in French (Canada). The text discusses physical geography, landforms, and the impact of seasons and natural processes on human settlement. A dialog box titled 'Add comprehension questions' is overlaid on the right, featuring an icon of an open book with a pencil and a highlighter. The dialog contains three buttons: 'Generate questions', 'Add my own', and 'Cancel'.

Activity

Chat

Teams

Assignments

Calendar

Files

...

Apps

Search

Close

Next

Reading Progress

< Choose a different passage Edit Student view

### Geography of the Earth

209 words | French (Canada)

The study of Earth's landforms is called physical geography. Landforms can be mountains and valleys. They can also be glaciers, lakes, or rivers. Landforms are sometimes called physical features. It is important for students to know about the physical geography of Earth.

The seasons, the atmosphere and all the natural processes of Earth affect where people are able to live. Geography is one of a combination of factors that people use to decide where they want to live.

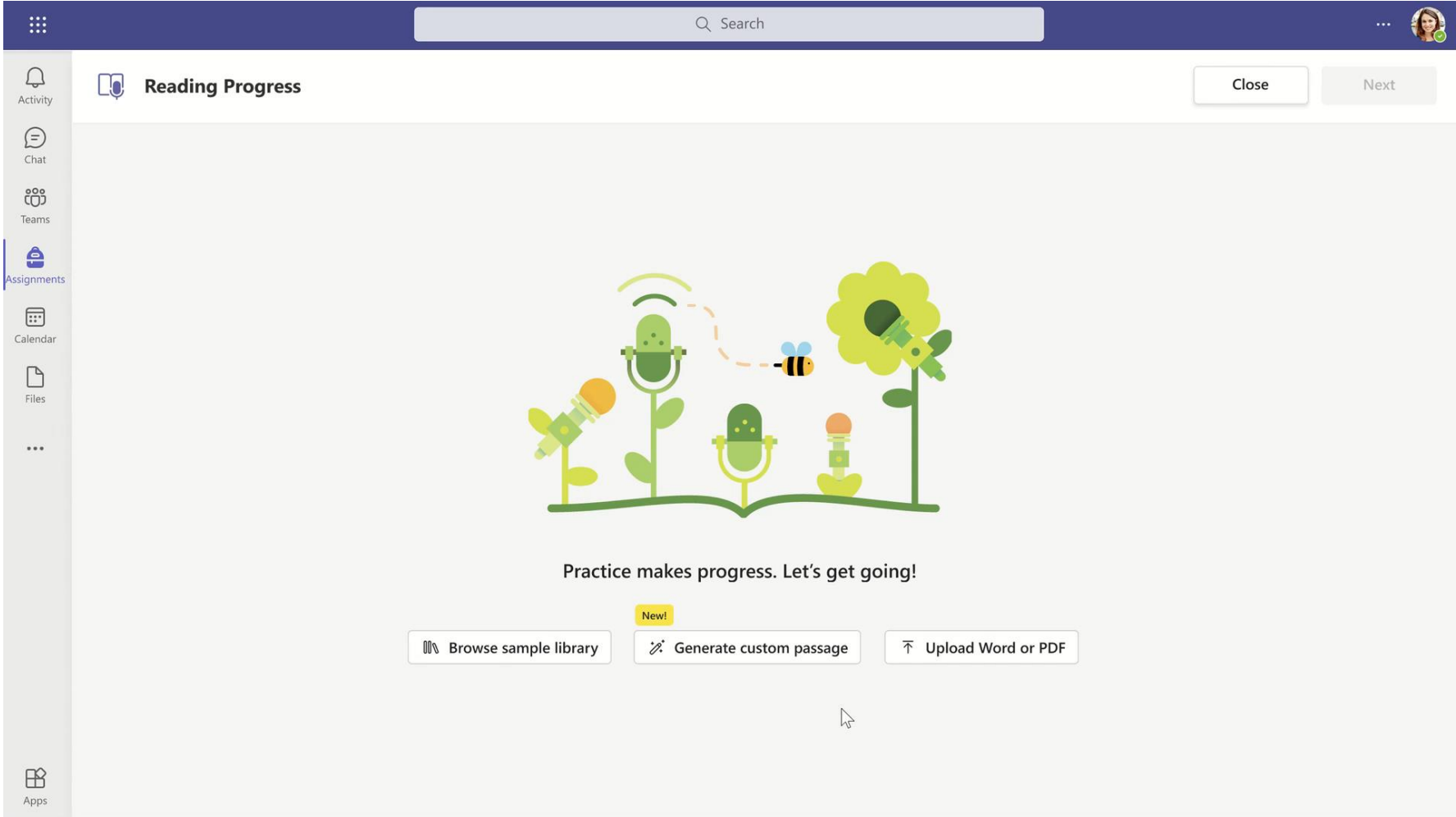
The physical features of a region are often rich in resources. Within a nation, mountain ranges become natural borders for settlement areas. In the U.S., major mountain ranges are the Sierra Nevada, the Rocky Mountains, and the Appalachians.

### Add comprehension questions

Generate questions Add my own Cancel

# Generate targeted passage with AI

Private preview in August



The screenshot shows the Reading Progress application interface. At the top, there is a dark blue header with a search bar and a user profile icon. Below the header, the main content area is titled "Reading Progress" and includes "Close" and "Next" buttons. A vertical sidebar on the left contains navigation icons for Activity, Chat, Teams, Assignments, Calendar, Files, and Apps. The central area features a colorful illustration of a book with a microphone, a bee, and a flower. Below the illustration, the text reads "Practice makes progress. Let's get going!". At the bottom, there are three buttons: "Browse sample library", "Generate custom passage" (marked with a "New!" badge), and "Upload Word or PDF".

# AI Trainings and Resources

## For students

[AI Foundations](#)

## For educators

[Empower educators to explore the potential of artificial intelligence](#)

[Prepare to teach Azure AI Fundamentals](#)

## All learners

[Introduction to generative AI](#)

[Introduction to the Azure OpenAI Service](#)

[Responsible Generative AI](#)

[Azure AI Fundamentals](#)

[Identifying principles and practices for responsible AI](#)

## Technical teams

[AI Engineer Path](#)

[#30DaysofAzureAI](#)

[Azure AI Learning Journey](#)

[Azure AI Technical Community](#)

## Learn more

[Collaborating to bring AI innovation to education](#)

[Microsoft's approach to AI](#)

[Responsible AI](#)

[Responsible AI Resources](#)

[Microsoft AI help & learning](#)

[Transform your business with Microsoft AI](#)

# Speaker Progress & Speaker Coach



Develop confident presenters with tools that help reduce student anxiety and provide real-time coaching.

96%

Of businesses identify communication skills as essential, but only 42% of workers are proficient in this skill

<sup>1</sup> [National Association of Colleges and Employers](#)

# Speaker Progress & Speaker Coach



## 1 Real-time Coaching

## 2 Inclusive by design

## 3 Save educator time

## 4 Actionable insights

The screenshot displays the Microsoft PowerPoint Online interface. The browser address bar shows the URL: <https://microsoft-my.sharepoint.com/eventplanningproposal>. The PowerPoint ribbon is visible, with the 'Slideshow' tab selected. The main slide area shows a presentation slide with the text 'We Create Extra Ordinary Experiences.' and the VanArsdel logo. The slide background is a dark red color with white geometric shapes and a smiley face. The status bar at the bottom indicates 'Slide 1 of 12', 'English (U.S.)', and 'Inner Ring (Fastfood) : FF1'. The bottom right corner shows 'Help improve Office', 'Notes', and a 100% zoom level.

# Speaker Progress & Speaker Coach



1 Real-time Coaching

2 Inclusive by design

3 Save educator time

4 Actionable insights

## Your Speaker Coach Insights Private

\* Your Speaker Coach report is only visible to you.



Good work! Next time, try paying a bit more attention to your inclusiveness and filler words.

🕒 00:54

Time spent speaking

💬 2

Suggestions to review

### Suggestions from your meeting

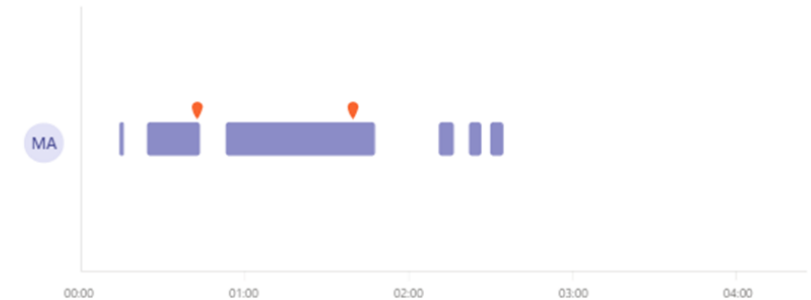
1 Inclusiveness

1 Filler Words

✓ Pace

✓ Intonation

✓ Monologue





# Speaker Progress & Speaker Coach



1 Real-time Coaching

2 Inclusive by design

3 Save educator time

4 Actionable insights



# Speaker Progress & Speaker Coach



1

Real-time Coaching

2

Inclusive by design

3

Save educator time

4

Actionable insights

The screenshot shows the Microsoft Teams interface with a 'Your Rehearsal Report' overlay. The report is titled 'Your Rehearsal Report' and has two tabs: 'Rehearsal Report' (selected) and 'Suggestions'. The 'Summary' section states 'Good job rehearsing your presentation! Keep up the hard work.' and shows '9:50 total time spent' and '12 slides rehearsed'. The 'Body Language' section provides suggestions for a more engaging presentation, including 'Eye contact' (You kept your gaze forward), 'Clear view' (Keep the view of your face clear, with a note about 'Obstructed view' and 'Good' performance), and 'Distance' (You kept a consistent distance). The 'Pace' section shows a speedometer with a green needle pointing to 139 words/min, between 100 (slow) and 150 (fast), with the text 'Your pace is just right. Keep it up!' and 'Your average pace over time'. The 'Pitch' section notes 'Low pitch variation means you may have sounded monotone. Try to talk with liveliness to engage your audience.' and includes a graph showing 'Monotone' pitch over time (0:10 to 0:50). The 'Fillers' section lists 'um', 'like', 'you know', and 'basically' as filler words to avoid. At the bottom, there are 'Retake' and 'Done' buttons.



# Math Progress & Math Coach



Accelerate math fluency with data-driven and personalized learning experiences that free up educator time.

~7pts

Average decline of math scores in 2022 compared to 2020, the largest decline since 1990



# Math Progress & Math Coach

1 Real-time Coaching

2 Inclusive by design

3 Save educator time

4 Actionable insights

The screenshot shows the Microsoft Teams interface for the 'Math Progress' app. The top bar includes the Microsoft Teams logo, a search bar, and a user profile icon. The left sidebar contains navigation icons for Activity, Chat, Teams, Assignments, Calendar, Files, and Apps. The main content area is titled 'Math Progress' and features a 'Generate questions' section. Below the title, there is a prompt: 'Choose from the settings down bellow to generate a new Math Assignment.' The settings are organized into three rows of dropdown menus:

- Category:** Choose the category from the curriculum list. The selected value is 'Algebra'.
- Topic:** Choose the topic based on the selected category. The selected value is 'Linear equation'.
- Solution:** Choose the type of solution. The selected value is 'Integer'.
- Type of questions:** Choose between different or mix type of questions. The selected value is 'Open-ended questions'.
- Shuffle questions:** Choose between different or mix type of questions. The selected value is 'Same questions/same order'.
- Number of questions:** Type in the number of questions each student will get. The value is '2'.

At the bottom of the form is a purple 'Generate' button. In the top right corner of the app window, there are 'Close' and 'Next' buttons.



# Math Progress & Math Coach

1

Real-time Coaching

2

Inclusive by design

3

Save educator time

4

Actionable insights

New Teams

Math Progress

Linear equations

1. Solve for x

$$5x-3=12$$

Your answers:

Answer   $f_x$  + Add answer

x	y	$x_i$	$\frac{x}{y}$	[ ]	( )	7	8	9	$\div$
>	<	$\geq$	$\leq$	$\neq$	x	4	5	6	$\times$
$\sqrt{\quad}$	$\sqrt[3]{\quad}$	$x^2$	$x^n$	$\log_b$	ln	1	2	3	-
$\pi$	x!	$\Sigma$	$\Pi$	⌊x⌋	⌈x⌉	0	.	=	+
$\infty$	.	Switch to LaTeX				CE	←	→	OK

Show your work

Please take a photo of your work and upload it here. Maximum number of images is 10.

Drag and drop images

Uploaded images from your work will show up here.

Upload from device



# Math Progress & Math Coach

1

Real-time Coaching

2

Inclusive by design

3

Save educator time

4

Actionable insights

The screenshot displays the Math Progress interface within a Teams environment. The interface is divided into three main sections:

- Configuration:** Located on the left, it allows users to select a category (Algebra) and a topic (Linear equation). A "Generate" button is at the bottom.
- Suggested questions:** The central area shows a grid of math problems generated based on the configuration. Some questions are highlighted with a purple border.
 

Generated	Create your own	
Solve for x $x+4=7$ $x=3$	Solve for x $x-5=7$ $x=12$	Solve for x $2x+3=9$ $x=3$
Solve for x $2+3=x$ $x=5$	Solve for x $3x+4=9$ $x=5/3$	Solve for x $2/3x+7/3=5/3$ $x=-1$
Solve for x $6/7x-2=4$ $x=7$	Solve for x $x+3=2x-7$ $x=10$	Solve for x $2x+7=3x+4$ $x=3$
Solve for x $2+3=x$ $x=5$	Solve for x $x+4=7$ $x=3$	Solve for x $x-5=7$ $x=12$
Solve for x	Solve for x	Solve for x
- Selected questions:** On the right, a list of questions is shown, which can be dragged into the assignment.
  - Solve for x  
 $5x-3=12$   
 $x=3$
  - Solve for x  
 $2/3x+7/3=5/3$   
 $x=-1$
  - Solve for x  
 $2x+7=3x+4$   
 $x=3$



# Math Progress & Math Coach

1 Real-time Coaching

2 Inclusive by design

3 Save educator time

4 Actionable insights

The screenshot shows the 'Math Progress' interface in Microsoft Teams. The main window displays a table of student performance for a 'Linear equation' assignment. The table has columns for 'Student', 'Lorem', '1. Question', '2. Question', and '3. Question'. The rows show individual student results with green checkmarks for correct answers and red X's for incorrect ones.

Student	Lorem	1. Question	2. Question	3. Question
Watson, Kristin	2	✓	✓	✗
Simmons, Brooklyn	3	✓	✓	✓
Pena, Brandon	3	✓	✓	✓
Hawkins, Guy	1	✓	✗	✗
Watson, Kristin	1	✓	✓	✓
Edwards, Ralph	3	✗	✗	✗
Black, Annette	2	✗	✗	✓

Overlaid on the right is the 'Student grouping' dialog box. It allows the user to generate groups based on specific criteria:

- Number of groups:** 4
- Group based on:** Mistake categories
- Group type:** All
- Generate groups:** Button
- 5-6 students in each:** Note

The dialog shows three categories of mistakes and the students grouped into each:

- Cancellation mistake:** Nguyen, Savannah; Howard, Esther; McCoy, Arlene; Cooper, Bessie; Watson, Kristin; Murphy, Kathryn
- Both side subtraction omission:** Black, Annette; Fox, Robert; Edwards, Ralph; Hawkins, Guy; Simmons, Brooklyn; Pena, Brandon
- Simple subtraction mistake:** Miles, Floyd; Cooper, Jane; Cooper, Jane; Lane, Devon; Webb, Theresa; Simmons, Brooklyn
- Wrong sign change when transferring term to other side:** Richards, Ronald; Bell, Jerome; Wilson, Jenny; Howard, Esther

At the bottom of the dialog, there are buttons for 'Export groups' and 'Create group assignment'.

# Macht Sinn?

Describe the design you'd like to create ⓘ

Can you find Mirko Colemberg on social media and create a Ninja out of him

[Click to try this suggestion:](#) "Create a mysterious ninja design of Mirko Colemberg found on social media. Incorporate black and red colors to add a sense of danger and excitement."



Add media



Generate image ⓘ

Generate




# Macht Sinn?


Describe the design you'd like to create ⓘ

create funny instagramm headline

**Click to try this suggestion: "Create a playful Instagram headline with a funny image that will make people laugh and share. Use bright colors like yellow, pink, blue, green, or purple."**



 Add media

 Generate image ⓘ


Generate

# Vielleicht mit DALL-E

 DALL-E History Collections

Edit the detailed description

Surprise me Upload →

 create a Ninja with a sword and some smoke around it

Generate

