

# AI Writing tools

In this lesson, students are going to explore the use of Artificial Intelligence (AI) writing tools. They learn about the algorithms behind AI writing tools. They are also going to write their own algorithm, test it and improve it. Finally, they will look into an AI writing tools' privacy policy and discuss the pros and cons.

**Duration: 1 hour.**

## STRUCTURE

- Introduction: Explore the use of AI writing tools
- Next step: How do AI writing tools work?  
Algorithms behind writing tools
- In practice: Write your own algorithm for an AI writing tool
- Evaluation: Would you use a writing tool yourself?

## PREPARATION

You can prepare by:

- Reading this teachers' guide and the student worksheet
- Opening the presentation slides.

## WORK AND CAREER

AI writing tools can be very useful for people in marketing and communication. It can help them to find the right words to use in social media posts for example.

## ETHICS & TECHNOLOGY

AI writing tools help you with writing flawless or finding the right tone. Therefore, they need permission to your documents and emails. How safe is it to use AI writing tools regarding privacy? And what are the consequences of AI writing apps for writing?

## LEARNING TARGETS

Domein curriculum 2021	Leerdoelen digitale vaardigheden	Kerdoelen	21st century skills
<b>1 Veiligheid &amp; privacy in de digitale wereld</b> DG2.1 Veiligheid in de digitale wereld.	<b>1 Media wijsheid</b> De leerling kent nadelen van onveilig computergebruik; storing, aantasting, datalekken, af luisteren.	<b>1 Engels</b> De leerling leert informeel contact in het Engels te onderhouden via e-mail, brief en chatten.	<b>1 Kritisch denken</b>
<b>2 1 Veiligheid &amp; privacy in de digitale wereld</b> DG2.2 Privacy in de digitale wereld.	<b>2 Computational thinking</b> De leerling kent de als-dan conditie en kan hier voorbeelden van noemen.	<b>2 Engels</b> De leerling leert in Engelstalige schriftelijke en digitale bronnen informatie te zoeken, te ordenen en te beoordelen op waarde voor hemzelf en anderen.	<b>2 Probleem oplossen</b>

## INTRODUCTION

### Opening slide

### Slide 1, Group discussion + individual work

Ask your students: Who finds it difficult to write in English? Who uses tools to improve their writing and if you do, which tools? In this lesson we are going to look at several AI writing tools. AI writing tools are tools that help with the writing process by correcting errors and giving writing suggestions. An example of an AI writing tool is Grammarly.



Watch the following video together: <https://www.youtube.com/watch?v=cjBPnlXK60U>. Let your students work on exercise 1.

Possible answers:

Spell checkers only correct spelling mistakes, and sometimes a bit of grammar. AI writing tools also include word suggestions, tone checking and rephrasing.

## WORK AND CAREER

### Slide 2, Instruction

AI writing tools can be very useful for people in marketing and communication. It can help them to find the right words to use in social media posts for example.



## NEXT STEP

### Slide 3, Video + individual work

Watch the following video together: <https://www.youtube.com/watch?v=yj-hjzql3l>. Let your students work on exercise 2.

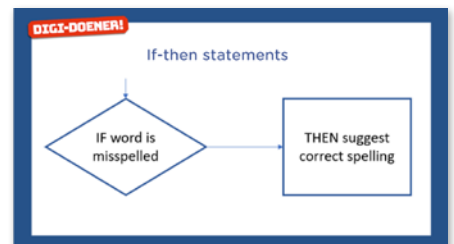
Possible answers:

1. Algorithms have learned the rules and patterns of clear and effective writing by analysing millions of sentences. They use these rules and patterns to analyse each sentence and to look for ways to improve it.
2. An algorithm is a process or set of rules to be followed in problem-solving operations, specifically by a computer.



### Slide 4, Instruction

In order to improve texts, algorithms behind AI writing tools make use of if-then statements. If a word/sentence meets certain conditions, then the algorithm will give a suggestion for how to improve that word/sentence. For example. IF a word is misspelled, THEN the algorithm will suggest the correct spelling.



## IN PRACTICE

### Slide 5, Pair work

Tell the students: Now it's time to write your own algorithm for an AI writing tool. Let your students work in pairs on exercise 3. Take time to discuss their answers afterwards with the whole class.


Possible answers:

- Step 1:
- Correct spelling
- Correct grammar
- Correct punctuation
- Short and concise



- Correct tone
  - Contains a meaningful subject line
  - Starts with an appropriate greeting
  - Contains an introduction
  - Contains a message or a question
  - Ends with an appropriate closing
- Step 2:
    - IF the email contains errors in spelling
    - THEN suggest the correct spelling
    - IF the email contains errors in grammar
    - THEN suggest the correct grammar
    - IF the email contains errors in punctuation
    - THEN suggest the correct punctuation
    - IF the email is long and not concise
    - THEN suggest shorter sentences
    - IF the email doesn't have the correct tone
    - THEN suggest a more suitable tone
    - IF the email doesn't contain a meaningful subject line
    - THEN suggest a meaningful subject line
    - IF the email doesn't start with an appropriate greeting
    - THEN suggest an appropriate greeting
    - IF the email doesn't contain an introduction
    - THEN suggest an introduction
    - IF the email doesn't contain a message or a question
    - THEN suggest to include a message or a question
    - IF the email doesn't end with an appropriate closing
    - THEN suggest an appropriate closing to end with

**Slide 6, Work in pairs**

 We have now seen how writing tools work. But, just as important is the privacy policy. Let your students work in pairs on exercise 3. Take time to discuss their answers with the whole class.

Possible answers:

Personal data:

- Username, email address, and contact and language preferences.
- Payment information from paying customers.
- Other information:
  - User Content. This consists of all text, documents, or other content or information uploaded, entered, or otherwise transmitted by the user in connection with the use of the Services and/or Software.
  - Names of user contacts (If using the Grammarly Keyboard).
  - Automatically collected information
  - Location information (As indicated by an Internet Protocol (IP) address or similar identifier) when interacting with our Site, Software, and/or Services.
  - Log data. This log data may include IP address, browser type and settings, date and time of use, information about browser configuration, language preferences, and cookie data.



- Usage information. This is information about the Grammarly Site, Software, and/or Services you use and how you use them. We may also obtain data from our third-party partners and service providers to analyse how users use our Site, Software, and/or Services.
- Device information. This is data from your computer or mobile device, such as the type of hardware and software you are using (For example, your operating system and browser type), as well as unique device identifiers for devices that are using Grammarly Software.
- Cookies.
- Information may be viewed where necessary to protect the rights, property, or personal safety of Grammarly and its users, or to comply with Grammarly's legal obligations, such as responding to warrants, court orders, or other legal processes.
- The privacy policy says: "We only disclose Personal Data to third parties when...
- ...we use service providers who assist us in meeting business operation's needs, including hosting, delivering, and improving our Services. We also use service providers for specific services and functions, including email communication, customer support services, and analytics. These service providers may only access, process, or store Personal Data pursuant to our instructions and to perform their duties to us.
- ...we have your explicit consent to share your Personal Data.
- ...we believe it is necessary to investigate potential violations of the Terms of Service, to enforce those Terms of Service, or to investigate, prevent, or take action regarding illegal activities, suspected fraud, or potential threats against persons, property, or the systems on which we operate our Site, Software, and/or Services.
- ...we determine that the access, preservation, or disclosure of your Personal Data is required by law to protect the rights, property, or personal safety of Grammarly and users of our Site, Software, and/or Services, or to respond to lawful requests by public authorities, including national security or law enforcement requests.
- ...we need to do so in connection with a merger, acquisition, bankruptcy, reorganization, sale of some or all of our assets or stock, public offering of securities, or steps in consideration of such activities (e.g., due diligence). In these cases, some or all of your Personal Data may be shared with or transferred to another entity, subject to this Privacy Policy."
- Information submitted to Grammarly will be transferred to, processed, and stored in the United States. When you use the Software on your computing device, User Content you save will be stored locally on that device and synced with our servers. If you post or transfer any Information to or through our Site, Software, and/or Services, you are agreeing to such Information, including Personal Data and User Content, being hosted and accessed in the United States.

## CLOSING

### Slide 7, Group discussion

Have a brief discussion with your class on the basis of their findings with regard to AI writing tools and specifically Grammarly's privacy policy:

- What are the pros of AI writing tools?
- What are the cons of AI writing tools?
- Would you use writing tools? Under what conditions?

