

Match up: Types of biases (online game) – Notes for Educators

Open the game - <https://wordwall.net/play/36146/512/138> to see the complete educational material.

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About the educational material

The educational material was created with the Erasmus+ project *Bridging Integrity in Higher Education, Business and Society* (BRIDGE, project no. 2020-1-SE01-KA203-077973) as a part of the project output 2 “Bridging academic and research integrity”. The educational material, other project outputs, and more information on the project are available at <https://www.academicintegrity.eu/wp/bridge/>.

Use and adaptations of the educational material

Authors welcome adaptations of the material, especially translations! If you are interested in translating the material into your language, please contact us at bridgeinfo@academicintegrity.eu and we will provide you with source text. The Bridge project will then be happy to assist you with further sharing of your translation.



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Citation of the educational material

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Match up: Types of biases (online game)

Basic information

- **Target audience:** PhD students, young researchers
- **Study/research field:** any
- **Length:** the game itself takes up to five minutes

Purpose of the educational material

This is a quick online game aimed at briefly reviewing the knowledge of various types of biases which can appear in research. The game includes five types of bias (**selection bias**, **publishing bias**, **confirmation bias**, **observation bias**, and **recall bias**) and their concise definitions.

The game is easy to play and can be used as a lecture opening, to energise the audience, as a brief conclusion, as homework, etc. It can be played individually or in teams.

What is included in this educational material?

The online game is available with the link: <https://wordwall.net/play/36146/512/138>

Correct answers:

Selection bias ✓	Research samples can sometimes under-represent certain people or groups, and over-represent others
Publishing bias ✓	Studies with negative findings are less likely to be submitted by scientists or published by scientific journals because they are perceived as less interesting.
Recall bias ✓	When survey respondents are asked to answer questions about things that happened to them in the past, the researchers have to rely on the respondents' memories of the past.
Observation bias ✓	Participants in a study are aware that they are being observed by scientists and, either consciously or unconsciously, alter the way they act or the answers they give.
Confirmation bias ✓	When researchers, consciously or unconsciously, look for information or patterns in their data that confirm the ideas or opinions that they already hold.

How to use the educational material?

- The audience needs a device (smartphone or laptop), they don't need to install anything, they simply open the link in any browser.
- Share the link (<https://wordwall.net/play/36146/512/138>) with the audience.
- The audience clicks on "Play" and starts the game. The aim is to match the given types of biases with their description. To perform the matches drag and drop each term at the top of the page to the fields next to its definition.

- The time limit is **5 minutes**.
- When the audience submits their answers, they see their score and can display the correct answers or replay the game.
- Have fun! 😊

Related educational materials

- [Online games on bridging academic integrity with integrity in society and business](#)
 - If you like this game, check the Bridge project website www.academicintegrity.eu/wp/bridge-games for more online games on topics from academic and research integrity, ethical citizen science, and ethics in business.
- [Board game *Bridging integrity*](#)
 - The board game is focused on practising knowledge of terms from the field of academic integrity, ethical research practice and business ethics.