AugmentedWorld
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AugmentedWorld (http://augmentedworld.co.il) is a location-based, collaborative, question-generating platform, designed to enhance the understanding of learning materials in a meaningful and engaging manner (Figure 1). The platform facilitates the generation of both inquiry (i.e. open-ended) and multimedia questions (i.e. closed-ended). It is free and open, allowing users worldwide to share questions and contribute authentic contents by adding layers of information via text, images, videos, and simulations on Google maps.

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Figure 1. AugmentedWorld home page
1. System Requirements
AugmentedWorld is supported by the browser versions listed below:

- Internet Explorer®, version 10 or later
- Google® Chrome™ version 35 or later
- Mozilla Firefox version 46.0 or later

Please note that the system does not support lower versions.

2. Register and Sign In

Register:

a) Go to http://augmentedworld.co.il
b) Click Register now (registration is free).
c) Provide your details and create a username -- Email address (abc@servername.com) and password (according to your choice).

Sign In:
Write your Email address and password, and then click the Sign In button.

* Important: Do not forget to 'Log Out' when you finish working. Click on your name located on the top left of the screen (e.g. Hello, Jane Smith) and a menu will appear. Then click on the Log out sign.

3. Edit User Profile

a) Click on your name located on the top left of the screen and then on My Profile
b) Edit or add your details.
c) Add or change your picture by clicking on the existing one.
d) Click Send to resume editing your profile.

* Important: We recommend that you change your password every six months.

4. Generate Questions

Each question is the ‘heart’ of a small interactive and collaborative learning unit. This includes four main sections:

Introduction - short paragraphs that provide the scientific background and/or a description of an authentic problem. This can include data tables, graphs, pictures and videos.

Question - focused on a specific scientific phenomena, process, or concept. It can be either an inquiry (i.e. open-ended) or multimedia (i.e. closed-ended) question.

Map - location-based information points on a Google map that connects the scientific topic to relevant locations, real-world situations, and/or every-day life (home, school).

Comments – teachers and students provide constructive feedback and informative ideas to improve the question.

Figure 2 presents an example of the four sections in a question titled: How do soap cleans your hands?
Figure 2. Four sections: **Introduction** - a homemade video, **Question** - multiple choice, **Map** – location-based information, **Comments** – peers’ feedback

The homepage wizard opens automatically with a content editor wherein you can write your question. You can add a short paragraph with background information, but make sure that your question ends with a question mark. You can edit the text, and add equations, pictures, and videos (Figure 3).
The platform facilitates the generation of two types of questions: Inquiry (i.e. open-ended) and Multimedia (i.e. closed-ended), detailed below.

4a. Multimedia Questions (closed-ended)

This option allows you to generate multiple-choice, open, or numerical questions. Select 'Multimedia Question' by clicking on the radio button below the content editor, then click ‘Send’. To generate your own multiple-choice question, follow these steps:

a) Add a ‘Question Title’, be concise, specific, and accurate.
b) Add keywords for effective search.
c) Choose a scientific topic from the drop-down list.
d) Add ‘Answer 1’ that presents a correct answer.
e) Add an informative feedback for this answer (optional). Refrain from writing general comments such as “good job”. Explain why the answer is correct and provide additional information or a link to relevant data.
f) Add ‘Answer 2, 3, and 4’. These are the distracters -- the incorrect answers.
g) Do not number your answers; the system will present them in a random and changing order.
h) Add feedback for each incorrect answer; explain why it is incorrect or provide a link to helpful data.
i) Permission default is ‘Public’ (open to everyone).
j) Choose the map’s ‘Zoom’ from 0 to 20. The option ‘2’ is default, showing a global map. As the number increases, the ‘zoom-in’ increases, enlarging the map.
k) Click ‘Add Question’ when you finish generating it.
For other types of closed-ended questions, follow the same steps, but provide only one correct and one incorrect answer for true-false or only one correct answer for numerical questions. An example for generating a multimedia question is presented in Figure 4.

4b. Inquiry Question (open-ended)

This option allows you to generate inquiry or open-ended essay questions. Select ‘Inquiry Question’ by clicking on the radio button below the content editor, then click “Send”. To generate your own inquiry question, follow these steps:

a) Add a ‘Question Title’, be concise, specific, and accurate.
b) Add keywords for effective search.
c) Choose a scientific topic from the drop-down list.
d) Permission default is ‘Public’ (open to everyone).
e) Choose the map’s ‘Zoom’ from 0 to 20. The option ‘2’ is default, showing a global map. As the number increases, the ‘zoom-in’ increases, enlarging the map.
f) Click ‘Add Question’ when you finish generating it.

![Figure 4](image)

Figure 4. The process of generating a multimedia question

4c. Points on a map

Each question has an attached map that facilitates the generation of location-based information points. For multimedia questions, the information points are used to provide supportive information that connect the scientific phenomena or concept to students’ daily life at school, home, neighborhood, or country. For inquiry questions, the information points allow users to document their findings via text, pictures, and/or videos.
To generate your own location-based information point, follow these steps:

a) Choose existing question.
b) Click *New Point on Map* for multimedia question, or *Add an answer* for inquiry question.
c) Use the search field to find places on the world map.
d) Drag the red mark where you want it on the map.
e) Write the point title.
f) Write comments about this point.
g) Click *send*

An example for generating a location-based information point is presented in Figure 5.

![Figure 5](image.png)

**Figure 5.** The process of generating a location-based information point

5. **Create a group**

This option allows you to create a group and share your questions with its members. Select ‘Groups’ by clicking on the top toolbar and follow these steps:

a) Click *Add new group*.
b) Enter group name.
c) Click *send*
To manage group members:

a) Click on group name.
b) Click *Add user to Group*.
c) Search users by name, mail, or institution.
d) Add the user by clicking *Add to group*.
e) Click *Delete from group* to remove a user from your group.

An example for creating a group and members management is presented in Figure 6.

Figure 6. The process of creating a group and manage members

6. **Share your question**

This option allows you to share your own questions with other users or with group members. Shared users have creating permission to the content of the question.

Click on your name located on the top left of the screen (e.g. Hello, Jane Smith) and a menu will appear. Then click ‘*My Multimedia Questions*’ or ‘*My Inquiry Questions*’ and select the question. To share your own question, follow these steps:

a) Click *Add a Member or a Group*.
b) Use the search field to find user or group.
c) Click *Add to Question*. 