COORDINATORS' INSTRUCTIONS

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BEBRAS®

COMPUTING CHALLENGE

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INFORMATION AND IDEAS

The Bebras® Computing Challenge introduces students to computational thinking. It is a free challenge. The Bebras® tasks can be answered without prior knowledge digital technology, but are clearly related to the subject.

The challenge is to be held in a two week window in November. For exact dates, check our website. Choose the day and time that suits your students best. If you don't have enough computers available in your school, you can always do the challenge on multiple days. If you do so, try to limit the interaction between students who have completed the challenge already and those who still have to complete it.

The challenge takes 45 minutes. After grading, students can log on to the server to review their answers and retake the challenge. They will get immediate feedback. As a teacher you can download detailed information on how your students performed: that data can be used in the classroom.

Other ways to use the challenge:

- Let high-performing students take the challenge in a higher age category to stretch them a bit
- Let low-performing students take the challenge in a lower age category to give them confidence
- Use either the real or the practice challenges of this year to refer to in class discussions or teaching efforts
- Use the data of your class or school to introduce students to data analytics. Since everybody has participated in the challenge, they will relate to your introduction more.

Don't forget that you can always get more student accounts if you need them!

REGISTRATION

If you want to register, go to http://challenge.bebraschallenge.org/admin/ and click on 'register as a coordinator'. After entering your state, city and school, you will have to fill in a page as shown underneath to finish your registration. You get to choose your own username and password: please remember the password because it gives you the opportunity to log on to the system again if you are logged out.

Bebras Administration

Register (2/2)

School

School	Example
State	Alabama
City	Example

User

Email *	Enter your information ✕
Username *	
Password *	
Password (check) *	
Firstname *	
Lastname *	
Gender	unknown
Phone home	
Phone mobile	
Phone work	

Save   Cancel

Once registered, we have to accept your registration. Give us a day to do this. After we did, we will send you an e-mail. This e-mail will also contain the username you entered before, as a reminder. Remember, we won't send you your password!

After you got that e-mail, you can log on to your account at http://challenge.bebraschallenge.org/admin.

Registering students

There are two ways of registering your students:

A. Registration with their full name
In this case you [the teacher] will gather the names of your students and will upload them into the system. The advantage is that all names will be properly spelled. This method also gives you the opportunity to decide beforehand at which age level
a student will participate.

B. Registration with blank users ('skeleton users')
In this case you [the teacher] will generate x blank accounts for your students. You will hand out usernames and passwords to your students. When the student logs in the system will ask the students to enter their names. The student gets to decide which age group to participate in.

The following pages describe both methods.

REGISTRATION WITH BLANK USERS

If you don't have time to generate a list of your students, there is also a possibility to generate so called 'Skeleton Users'.

If you log in to the system (challenge.bebraschallenge.org/admin/) and click on 'Skeleton Users', a pop-up wil appear where you can enter a 'Username Prefix' and a 'Number of users to create'.

It is now set at 'user' and '10'.

Please change 'user' into the name of your school or a short version of that. Is your school name 'Bebras Challenge' for example, you can choose 'Bebras' or 'BC' or 'BChallenge'. Make sure you change the word 'user'!

Next to 'Number of users to create', enter how many students you have in your class that you would like to get a username and password for.

Click on 'Create' to create that number of skeleton users.

DOWNLOAD LOG-INS

If you now go to 'Export files', you will be able to export a list called 'Students' that will contain usernames and passwords that can be used to take one Bebras challenge each.
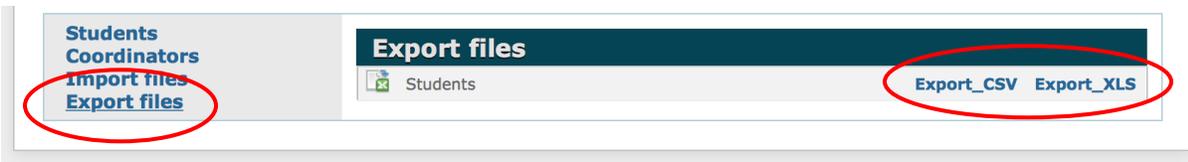
Either click on 'Export_CSV' or 'Export_XLS' and the file will be downloaded.

Once the students log in they can enter their names. Those names will only be used for the certificate they get after the challenge, we respect their privacy and will not publish anything without you knowing. We never use names: we might use their scores for bell charts on the state or that school for example.

REGISTRATION WITH FULL NAME

1. To enter students, you first have to make an Excel file or ASCII-file (plain text file) with the following information of all students:

   Class,grade,firstname,lastname,gender

   With ASCII, it will just contain rows of this information and is supposed to look something like this:

Class-of-student-1,grade-of-student,firstname-of-student-1,last-name-of-student,gender
Class-of-student-2,grade-of-student,firstname-of-student-2,last-name-of-student,gender
Class-of-student-3,grade-of-student,firstname-of-student-3,last-name-of-student,gender
Class-of-student-4,grade-of-student,firstname-of-student-4,last-name-of-student,gender

   You can add as many students as you like. Just don't use any spaces in the file, separate the information with a comma and press enter before you start typing the details of another student.

   To know what to put in as the 'grade' of the student, please check the 'Selecting a grade'-file that is shown under 'Documents' once you logged in to the bebraschallenge.org system.

   If you have all the information of every student in one document, save the document as '**student-import.txt'**.

2. Go to http://challenge.bebraschallenge.org/admin and log in. You'll see a screen like this:

3. To import the file you just made, click on the 'Import files'-button on the left (as shown in the previous picture). Click 'upload'. Now you have to check the boxes of the information that is in the file you just saved. Check class, grade, firstname, lastname and gender as shown below. Then click on Browse and choose the file that contains the information of your students. Click on Save.

4. If you click on 'Import now', the data of the first 5 students you entered will appear. If the column names match the information in the table, click 'Import'.

Do not check the headers checkbox! There also is no need to click on 'Upload', because it will only ask you to upload another document. You don't want to do that unless you want to enter more students.

Now your students are entered. You can check by clicking on 'Students' on the left, you will see all of them.

DOWNLOAD LOG-INS

To get an ID and password for each participating student, please log in at
http://challenge.bebraschallenge.org/admin/ again. You can do this any time before the challenge
starts, just take your time and don't do it last-minute in case something goes wrong or you need help.
Click on the link 'Students' on the left. At the bottom of the list you can find a link that says
'Export_XLS'. Press that. A file will be downloaded, containing all the information you gave us,
extended with two columns: username and password. Hand these out right before the challenge: that
way students can log in to the system.

Make sure that the school computers don't block the page they have to log on to: check it before the
challenge!

THE DAY OF THE CHALLENGE

Make sure that students work individually and have their own computer. They have to know their username and password.

All participants can use pencil, paper and a calculator. If you are holding the challenge on multiple days, please make sure none of the papers or notes leave the room.

Ask the students to go to http://challenge.bebraschallenge.org/. Check if everybody understands how to log in with the received ID and password. Then start the challenge.

The system will tell the student how much time they have left. Everybody has 45 minutes, from the moment that they start.

Bebras Challenge

Welcome   Challenges   Login

Welcome

Login

TEACHERS: To register, please go to challenge.bebraschallenge.org/admin/ or e-mail daphne@bebraschallenge.org

You can try the hour of code without login. In order to participate in the official challenge your teacher has to give you a login!

What a teacher said about Bebras:
'I just want to say how much the children are enjoying this competition. It is the first year we have entered, and I have students aged 8 to 11 participating in my ICT lessons, with some of our older students also taking on the challenges. It is really helping to challenge their thinking, and they are showing great determination to try and complete each task! Also fantastic to find something that works on our iPads, as most puzzles of this kind are flash based.'

Welcome to the Bebras Challenge 2014!

This challenge tests your logic and computational skills through different types of fun and challenging problems.

The problems come in three levels of difficulty: A, B and C.

The "A"-level problems are intended to be easier than the "B"-level problems, which are intended to be easier than the "C"-level problems.

You can find a problem's difficulty in the problem overview before you click on it. The difficulty of a problem determines how it will be scored. The scoring rules are as follows:

Difficulty	Correct	Incorrect	Unanswered
A	+6 points	-2 points	0 points
B	+9 points	-3 points	0 points
C	+12 points	-4 points	0 points

Instructions:

1. Login by clicking on the *Login* link at the top of the page. Enter the user ID and password you are given by your teacher.
2. After logging in, you should be directed back to this page. To start the Challenge, click on the *Challenges* link above and select which group you are in.
3. When you start, you will see that all questions are indicated as "Not Answered". This main page will change once you have selected your answer.
4. In total, there are 15 questions.
5. You may change your answer at any time, and may complete the problems in any order.
6. For all problems you will have the option to erase your answer. This option appears as the last option in all

AFTER THE CHALLENGE

A week after the challenge you will be able to download the results of your students. You can do so by going to our website and clicking on 'Export Files' on the left downer corner. You can find a file there that is named 'Results Bebras Challenge 2015' that you can export to Excel, just like you did with the user ID's and passwords right before the challenge.

Students will still be able to log in, but the mode on the website will be different. From now on students can try to answer the questions in a review mode so they will know what they did wrong.

You can use the system this way in class, for the rest of the year.

CONTACTS & QUESTIONS

If you have any questions about this guide, feel free to contact us!

Common enquiries: info@bebraschallenge.org
Registration help: daphne@bebraschallenge.org

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