



Context Based Science

The perfect job—
Dubai Beach Keeper

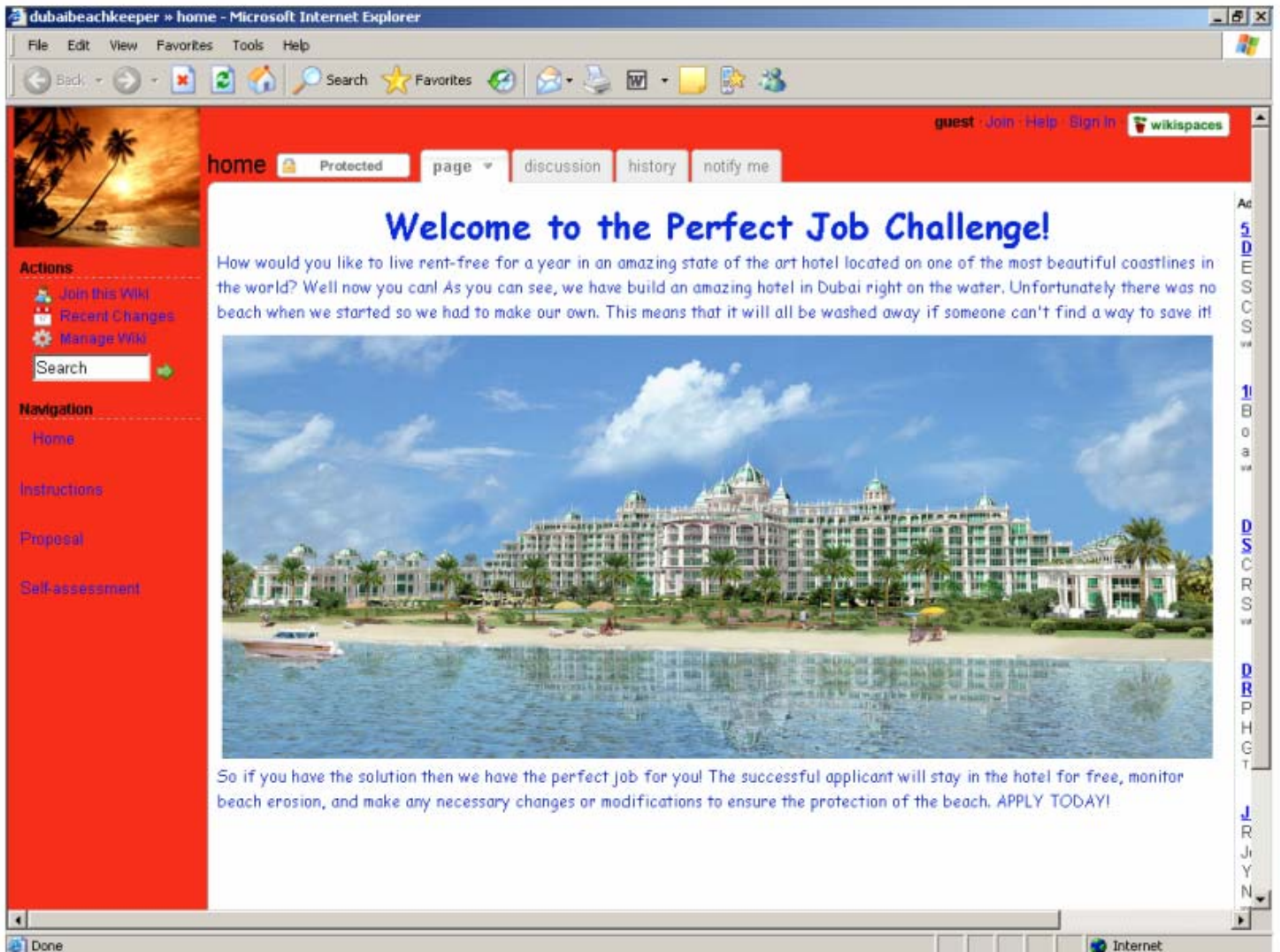
Marie St Louis
Marie MacPhee
Michael Levy
Wendy Lockhart
Shelley MacLean

Our Design

This assignment is designed to be “sold” to students as a pop-up that just happens to appear during a regular lesson being taught on a smartboard. To the students, it appears the lesson will be regarding the same topic as the assignment. The smartboard file has been included as an attachment and it is called *Hook.notebook* (see attachment section). The “pop-up” in the smartboard file (page 2) is linked to a wikispace (dubaibeachkeeper.wikispaces.com) that we created where all the necessary documents for the assignment are posted. If you are unfamiliar with smartboard software then this portion could be done using powerpoint or some other presentation software.

Screenshots have been included to give an idea of what the site would look like but teachers would need to create their own wikispace for this style of context based science project. The website could also be used to post discussions to add another layer of authenticity to the project. Where appropriate, the screen shots included have links similar to those found on the actual site (Home/instructions/proposal/self-assessment). The original documents have also been included: [Instructions](#), [Proposal](#), and [Self-Assessment](#) for ease of reading. The [Teacher’s Guide](#) is located at the end of this document.

Homepage



Instructions

http://dubaibeachkeeper.wikispaces.com - dubaibeachkeeper » Instructions - Microsoft Internet Explorer

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Actions

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Navigation

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- Proposal
- Self-assessment

Thank you for your interest!

As you know the developers of this hotel are in a pickle. They have this brand spanking new hotel and in front of it they built a beautiful beach. However, the beach is not natural to this coastline and therefore, will be prone to erosion. Your task will be to create a barrier off the shore to prevent erosion.




What are we looking for?

When you design the barrier consider the following:

1. **Appearance** - We still want to draw in tourism and tourists do not want to look at something ugly or they would just stay home.
2. **What materials do you need to make it?** - We have already invested millions of dollars in this new hotel and beautiful beach. The materials to build the barrier must be inexpensive.
3. **Location** - You need to tell us where the barrier is. For example, how far away will it be from the shore, it is underwater, if not, how far above water will it project?
4. **Environmental Effects** - Is the barrier safe or will it harm the area?
5. **Identify the barrier** - You need to let us know what kind of barrier this is. For example, it is a dyke, jetty, coral reef...etc.

When you have your design in mind, please complete the following [application form](#) and then build a model replica of it. We will come to your class and have you do a demonstration of it. You will then be required to complete a [self-assessment](#) of the demonstration. Note: if your demonstration does not do well, that does not mean you are out of the running. You can use the assessment to defend your model and explain where you went wrong and what you can do differently next time to make it better.



And the Winner is!!

So, the demonstration is done and you rocked it out, what happens next? You will be invited to stay at the hotel for one year. Your "joy" will be to monitor the barrier and note the erosion over the course of the year. Living in a 5 star hotel, lying on the beach and only

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Proposal


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Proposal Protected page discussion history notify me

 **Dubai Beach Keeper**

Application Form

Thank you for your interest in our Perfect Job Challenge!

To apply for the position, follow carefully the guidelines and instructions found on this page.

The selected application will take into consideration all of the following **aspects**:

- Materials used to protect the beach
- Overall effect of the project on the look of the beach
- Effect of the project on the environment
- Expected cost of the project

For your application to be considered, all the sections must be fully completed.

Step 1

In a few sentences, describe how you propose to handle each of the **aspects** listed above:

- 1.
- 2.

Actions

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Self-Assessment

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Self Assessment

Name: _____

1. How effective was your barrier during the simulated wave test?
2. How long did your barrier stand up to the wave test?
3. How did your barrier compare to other peoples designs?

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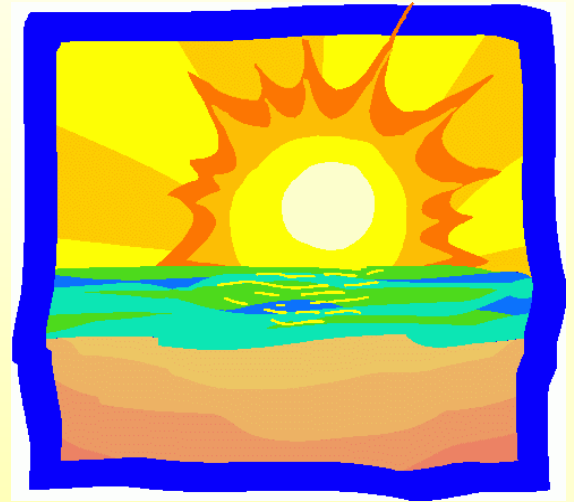
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And the Winner is!!

So, the demonstration is done and you rocked it out, what happens next? You will be invited to stay at the hotel for one year. Your "joy" will be to monitor the barrier and note the erosion over the course of the year. Living in a 5 star hotel, lying on the beach and only having to make a few notes a year, sounds good to me. Wow-ie!



Dubai Beach Keeper

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- Expected cost of the project.

For your application to be considered, all of the sections must be fully completed.

Step 1

In a few sentences, describe how you propose to handle each **aspect** listed above:

1.

2.

3.

4.

Step 2

Illustrate what your barrier will look like and where it will be located. Be sure to label everything in your drawing and include a rough scale for dimensions.



Each of the chosen finalists will be contacted and invited to create a model of their barrier. Each model will be field-tested. From this test, a winner will be chosen.

Good Luck!

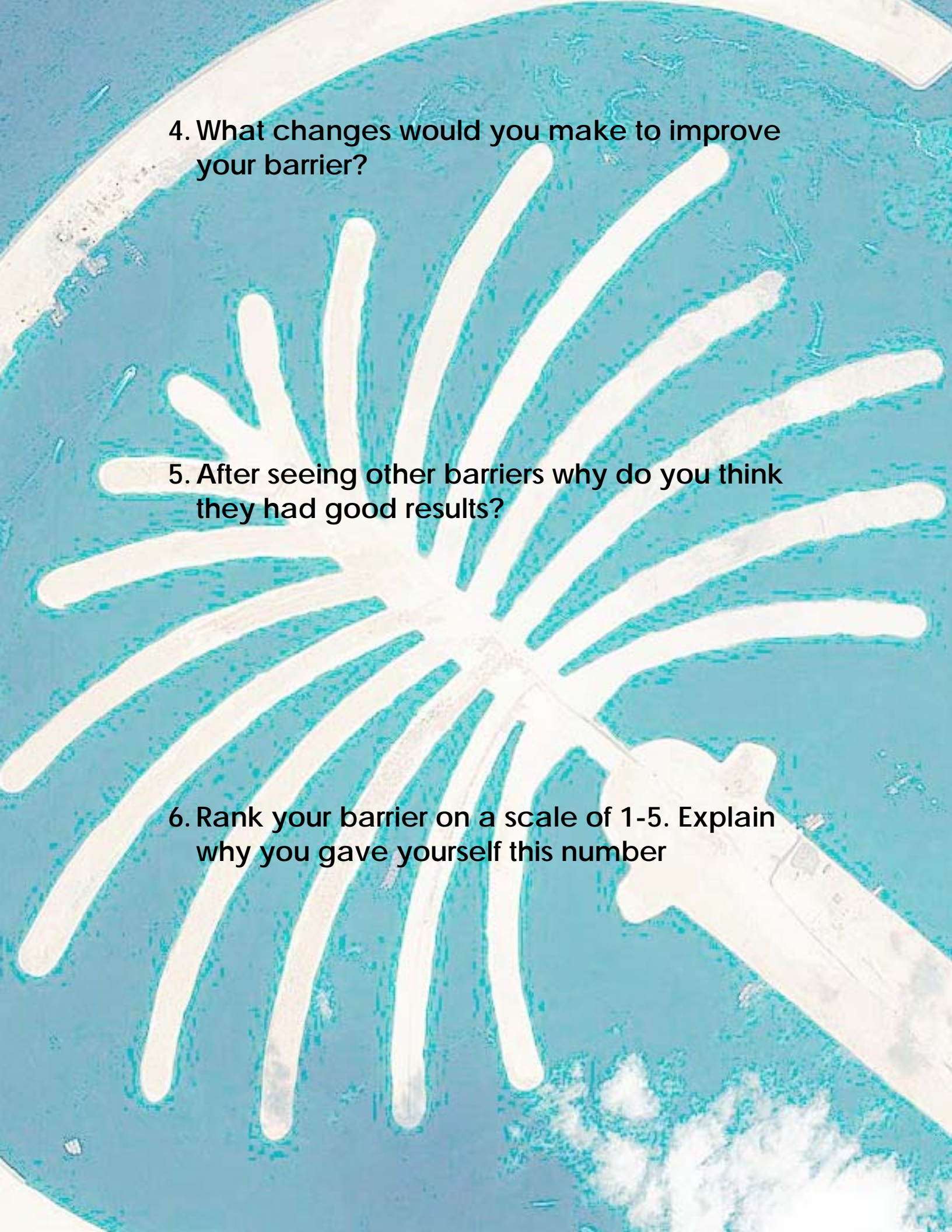
Self Assessment

Name: _____

1. How effective was your barrier during the simulated wave test?

2. How long did your barrier stand up to the wave test?

3. How did your barrier compare to other peoples designs?



4. What changes would you make to improve your barrier?

5. After seeing other barriers why do you think they had good results?

6. Rank your barrier on a scale of 1-5. Explain why you gave yourself this number

For The Teacher

Overview

The object of this CBS project is for the students to save a manmade beach in front of a new expensive hotel from erosion. The students need to keep in mind that they are placing their barrier in front of an expensive hotel so they must consider appearance, cost, how environmentally friendly it is and they must also place it properly. This assignment should be used when teaching grade 8 earth and space science: water systems on earth. This project covers outcomes 311-11 (describe processes of erosion and deposition that result from wave action and water flow) and 311-10 (explain how waves and tides are generated and how they interact with shorelines).

Pop-up Add and Website

This is to introduce the project to the students and hopefully get them interested and excited for what is to come. A Wikispace will need to be created by the teacher and all the documents (instructions, proposal and self assessment) will need to be added before showing it to the students. The documents included for this CBS project are currently all in PDF.

The Instructions:

The purpose of this sheet is to explain to the students what the assignment is and what the guidelines are. It also outlines what will be used to evaluate their barrier and so functions as the rubric for this assignment. In electronic form, it functions as a "home page" with links to the proposal and self-assessment forms.

The Proposal:

The proposal acts as a check point for the students. They will hand in the proposal and the teacher looks each one over to make sure the students are on the right track. If the students are not on the right track their idea will not get approved and they will need to start over. If they are on the right track their idea will be approved and they may begin building their model.

Self Assessment:

This self assessment sheet acts as both a reflection on the assignment and as a self assessment. This allows the students to think about their design and how effective it was it also allows them to look at other students projects and see what ideas others had and which of these ideas were effective. The students will think about what strategies worked/did not work and why.

Helpful Hints:

- Depending on the size of the containers used for the demonstrations you may wish to give the students a maximum or minimum size for their model barrier.
- There needs to be enough time allotted for this project for the students to build their barriers.
- A letter to the parents may be helpful in obtaining materials the students may wish to build their barriers out of.
- The Wikispace needs to be created and all documents up before the project can begin.