



A GLOBAL COALITION OF MUSICIANS FOR OUR ENVIRONMENT & OUR FUTURE

## **The Jellyfish Project's Pre-and-Post Presentation Questions, Activities and Resources**

Dear Teachers,

We are looking forward to presenting at your school!

Our Jellyfish Project presentation focuses on three main themes:

- 1. Ocean Sustainability**
- 2. Climate Change**
- 3. Environmental Stewardship**

Below you will find facts and questions that can be used to facilitate discussion on these topics in your classroom. We really want students to become engaged in these topics and hope that you will be too. Feedback is encouraged so please let us know if the information that follows is helpful.

### **PRE-PRESENTATION**

There are a few ways to support and expand upon the information that will be shared during the presentation.

**The Introduction Video** [www.thejellyfishproject.org](http://www.thejellyfishproject.org)

This inspirational 4:43 minute video is a great way to introduce students to our themes.

### **Student-Driven Inquiry, Discussion, and Visual Mind Map**

Consider a 20-40 minute pre-presentation classroom activity that is meant to highlight knowledge that students may have on our three themes. In pairs or small groups, students can discuss and write down what they already know about ocean sustainability, climate change and environmental stewardship, creating an information sheet. Once finished, they can collaborate with another group to extend their information sheets further. At the end of this activity, the teacher can lead a group discussion and facilitate the creation of a visual mind map on the board that encompasses what was learned from this exercise.

## POST-PRESENTATION

### Debriefing Questions and Discussion

#### 1. Ocean Sustainability

What percentage of large fish have been taken out of the ocean? *answer: 90%*

What makes the ocean acidic? *answer: CO<sub>2</sub>*

FACT - Our oceans are 30% more acidic than they were 30 years ago. Why? *answer: carbon emissions*

How does acidification affect shellfish? *answer: keeps them from making shells because the calcium can no longer be taken from the ocean.*

What is more sustainable | eating a fish that lives to 100 years or 3 years? *answer: 3 years*

What is more sustainable | eating large trophy fish like marlin or tuna, or smaller fish, like herring or anchovies? *answer: smaller fish*

#### 2. Climate Change

What are the steps in the hydrological cycle? *answer: evaporation, condensation and precipitation.*

How does global warming affect these steps? *answer: a warming earth increases water in the atmosphere causing droughts, massive storms, and extreme weather.*

Why do people talk about the weather but not climate change? *answer: most people do not know the facts that were presented in The Jellyfish Project presentation.*

What is CO<sub>2</sub>? *answer: one atom of carbon and two atoms of oxygen and the source for carbonic acid which is acidifying our oceans.*

FACT | The average Canadian per capita uses 20,000 pounds of CO<sub>2</sub> per year. Compare that to an average person in India who only uses 2,000 pounds (one tonne) of CO<sub>2</sub> per year.

What does one tonne of CO<sub>2</sub> look like? *answer: approximately 8 full tanks of gasoline for a large car. If a car fills up with 100 pounds of gasoline, its CO<sub>2</sub> emissions will weigh 250 pounds.*

FACT | If you reduce your car fill-ups by 8 per year, you are reducing your fill-ups by one tonne.

#### 3. Environmental Stewardship

What does environmental stewardship mean? *answer: creating a sustainable relationship to our environment.*

How do you protect the environment? *answer: education, action, commitment, and mindfulness.*

How many plastic objects can you point out in your classroom right now? Does this number surprise you?

Where does most plastic created on Earth end up? *answer: the ocean and landfills.*

What is the best way to reduce plastics in the ocean? *answer: consumers need to stop buying plastic.*

FACT | Did you know that the disposable diapers you may have used as a baby are still in the landfill or the ocean?

## **FURTHER ACTION**

Integrating these ideas is an exciting way to get students involved in caring for our environment. Encourage students to:

- start or join an Environmental Club at your school
- write a review of The Jellyfish Project presentation for the school newsletter and for their family
- support the ban of plastic water bottles on school property
- start a reduce plastic campaign

Teachers can go to [www.thejellyfishproject.org/learn](http://www.thejellyfishproject.org/learn) where they can access The Jellyfish Action Project, a home eco-audit based tool to help students learn about how to make their home and community more sustainable. As well, this link offers 60 pages of educational curriculum activities, separated into 4 categories: Ocean Conservation, Climate Change, Plastics, and Alternative Energies.

Another source that can promote discussion as well as classroom activities is [www.davidsuzuki.org/what-you-can-do/queen-of-green/fags/](http://www.davidsuzuki.org/what-you-can-do/queen-of-green/fags/).

Together, we can contribute to the environmental conversation and make a positive impact by joining the rapidly growing movement that supports environmental stewardship.

***“Those who have the privilege to know, have the duty to act.” Albert Einstein***