

## **Science Time**

### **Program Content for April 27, 2016**

Read the special insert by the Nature Conservancy and Newspapers in Education “**The Science of Climate: Preparing for Change**” on page A9 and A10 of the Wednesday, April 20, 2016 edition of The Seattle Times.

#### **Section 1: The Science of Climate: Preparing for Change**

1. How is the climate in Puget Sound projected to change?
2. How will Puget Sound temperatures likely change in the coming years?

#### **Section 2: Climate is What You Expect. Weather is What You Get.**

1. What has been the cause of rising greenhouse gas concentrations?
2. What do scientists use future greenhouse gas emissions predictions for?
3. What is ocean acidification?
4. How are local sea-levels expected to change as global warming continues?
5. What impacts of climate change are predicted to negatively impact Pacific salmon populations?

#### **Section 3: Where is our Region Headed?**

1. Where is the impact from climate change expected to be most noticeable for lands in the Puget Sound region?
2. Where is the impact from climate change expected to be most noticeable for rivers and lakes in the Puget Sound region?
3. What two factors will likely lead to an increase in landslides in the region?
4. What is one benefit agriculture will likely see as a result of climate change?

#### **Section 4: How Will Climate Change Affect our Health?**

1. How do extreme weather conditions affect clean drinking water?
2. What are two heat related illnesses that can be caused by higher temperatures?
3. Explain how increased temperatures can lead to health risks for those who consume shellfish.

#### **Section 5: How Can We Prepare?**

1. What are the four steps highlighted in this section that can help communities prepare for climate change?
2. What has the Nature Conservancy done to help plan for climate change?
3. Provide examples of two projects that local communities have already completed to prepare for the effects of climate change.

Science Time is posted to the Web on Wednesdays. Please share this NIE Science Time program with other teachers. To sign-up for the electronic edition for your class, please register

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## **Prompts and Extensions**

1. Analyze the graph that can be found within the special report you just read. What trends do you notice about the graph? Also, compare predicted future changes in the Puget Sound region's temperature to changes that occurred in the past; what differences do you notice between the two periods of time?
2. Learn more about the work being undertaken by the Nature Conservancy to combat climate change by visiting their [website](#).
3. Read, watch, and learn more about ocean acidification, one of the many ways climate change will impact the Puget Sound region, at this [website](#) created by The Seattle Times.
4. Want to get involved helping to address climate change? Check out the [website](#) of the Alliance for Climate Education, an organization dedicated to helping get kids take action. You can even arrange for someone from their organization to [visit your school](#).