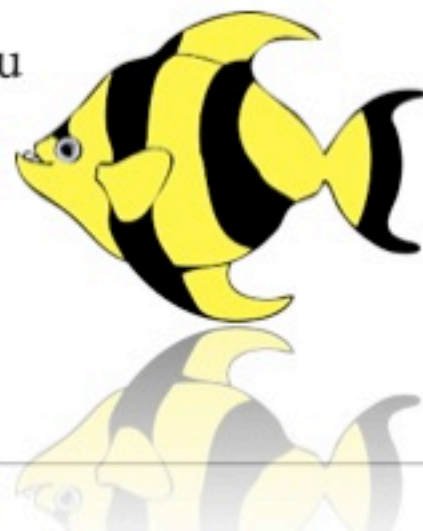


# I'm a Fish

- **I'M A FISH:**
- You are now a fish.
- Write about your life as a fish (in the first-person as a fish). What do you do all day? What do you worry about? What are your plans for the weekend? What do you think about global warming and hotter water?





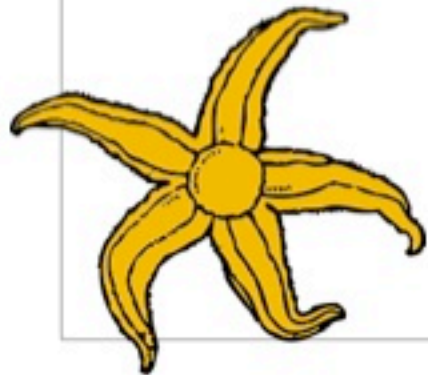
# Climate Change

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# Climate change threatens fish populations

- What does this headline make you think the article is about?
- “Climate Change Threatens Fish Populations”
- Global Warming...





# Climate change threatens fish populations

- A new report from the World Wildlife Fund (WWF) reveals that fish populations are under increasing threat from global warming. The report “Are we putting our fish in hot water?” describes how climate change is causing temperatures to rise in rivers, lakes and seas. This means less food and oxygen for marine life, stunted fish growth and fewer offspring.
- The report says that temperate fish such as salmon, catfish and sturgeon cannot spawn if winter temperatures do not drop below a certain level. Warmer water also means fish could mass migrate to cooler areas, where the temperature resembles their normal habitat. This could impact on many species’ ability to survive. Some species will become extinct if the water temperature rises by a degree or two

# Climate change threatens fish populations

- WWF director Andrew Lee said: “Climate change increases the pressure on fish populations that are already strained to the limit by over-fishing in the marine environment. We must act urgently to reduce both carbon dioxide emissions and fishing pressures to protect fish populations as they are one of the world’s most valuable biological, nutritional and economic assets.”
- Forty percent of the world’s people are reliant on fish for basic sustenance and a main source of protein. Dr Richard Dixon, director of WWF Scotland spoke ahead of next week’s UN Climate Change Conference in Montreal. He said: “If we fail to secure deeper reductions in greenhouse gas emissions we will increase the pressures on fish and the billions of people that depend on them.”

# Fishy Opinions

- Do you agree with these opinions on fish and fishing?
  - Humans will become extinct if fish become extinct.
  - Fish will never disappear. There will always be enough fish to feed the world.
  - Reports and conferences will not change government actions to help fish.
  - Most people think fish will survive and the problem of over-fishing will disappear.
  - The USA Government is acting criminally in not cutting CO2 emissions.
  - In many ways, people are the same as fish.
  - Hobby fishing should be banned to help protect fish populations.
  - The fishing industry will find new ways to breed enough fish for us to eat.



# Discussion Questions

- Do you think that humans will become extinct if fish become extinct? Why or why not?
- Do you think, like most people, that fish will somehow survive and the problem will somehow disappear? Why or why not?
- Is it just fish that are in hot water because of climate change?
- Do you think we still have time to save the fish populations?
- When was the last time you were in hot water?
- FISH JOKE: What do you call a fish with no “eyes”?





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What do you think are  
our greatest technological  
and social challenges?





**Brainstorming Activity:**  
**Make a list challenges**  
**facing our world**

# 21st-Century technological challenges: What can we do?

Challenge	Possible?	How?	When?	Benefits?
a. Make cheap solar energy				
b. Reduce carbon emissions				
c. Provide access to clean water				
d. Understand the entire brain				
e. Prevent nuclear terrorism				
f. Make cyberspace safe				
g. Improve our cities				
h. Make better medicines				
i. Advance personalized learning				



# Social Opinions Social Challenges



- What are some social challenges or problems facing society today?
- What are some strong opinions about the world today?
- Which social problems do you think are the most serious?
- Is it possible for us to solve them?

# Group Presentation

- With your group, choose one topic or situation or opinion facing our world today and prepare a presentation.
- In one of the next two classes, you will present the current situation facing our society and if and how it is solvable.
  - 1.) Present Situation / Opinion (1 min.)
  - 2.) Talk about whether situation is solvable (1 min.)
  - 3.) Talk about how it is solvable. (1 min.)
  - 4.) Summarize what your partners talked about (1 min.)