

# **the Water Brothers** **EPISODE GUIDE QUESTIONS**

## Here Comes The Flood

1. Explain why Bangladesh is in danger of sea level rise.
2. Name three countries that are mentioned in the episode where extreme flooding has occurred.
3. Is global warming increasing or decreasing the frequency of extreme weather events?
4. Give two examples of extreme weather events.
5. How many people around the world are estimated to be displaced in the future because of climate change?
6. True or False: In Bangladesh, can a monsoon wash away entire riverbanks and villages?
7. How many people per year in Bangladesh are displaced by river erosion?
8. What job sector in Bangladesh is highly impacted by flooding and sea level rise?
9. Why is saltwater intrusion (from the sea) into the freshwater of rivers in Bangladesh a problem for farmers?
10. How have farmers in Bangladesh adapted to the saltier waters (saltwater intrusion) caused by flooding? Give one example.
11. Why are people in Bangladesh migrating from rural areas to cities? Give one reason.
12. Name one agricultural method that people in Bangladesh use to adapt with floods and rising sea levels

# the Water Brothers EPISODE GUIDE ANSWERS

## Here Comes The Flood

- 1. Explain why Bangladesh is in danger of sea level rise.** Bangladesh is in danger from sea level rise because it is a low-lying and coastal country. (It also has many rivers and is highly populated, which make it increasingly vulnerable to rising sea levels.)
- 2. Name three countries that are mentioned in the episode where extreme flooding has occurred.** Extreme flooding has occurred are Indonesia, Australia and Pakistan (and Bangladesh).
- 3. Is global warming increasing or decreasing the frequency of extreme weather events?** Global warming is increasing the occurrence of extreme weather events around the world.
- 4. Give two examples of extreme weather events.** Two examples of extreme weather events that can become more frequent and intense due to climate change are droughts and flooding.
- 5. How many people around the world are estimated to be displaced in the future because of climate change?** It's estimated 300 million people will be displaced in the future because of climate change.
- 6. True or False: In Bangladesh, can a monsoon wash away entire riverbanks and villages?** True. When annual monsoons arrive and water levels rise, entire riverbanks and villages can be washed away due to river erosion.
- 7. How many people per year in Bangladesh are displaced by river erosion?** 100,000 people per year in Bangladesh are displaced by river erosion.
- 8. What job sector in Bangladesh is highly impacted by flooding and sea level rise?** The agricultural sector in Bangladesh is highly impacted by increased flooding and sea level rise.
- 9. Why is saltwater intrusion (from the sea) into the freshwater of rivers in Bangladesh a problem for farmers?** Many crop and rice varieties that farmers grow cannot tolerate salt water.
- 10. How have farmers in Bangladesh adapted to the saltier waters (saltwater intrusion) caused by flooding? Give one example.** Many farmers have started to grow shrimp because this animal can live in saltwater.
- 11. Why are people in Bangladesh migrating from rural areas to cities? Give one reason.** One reason why people in Bangladesh are migrating to cities is because they can no longer work as farmers. This is partly because saltwater has invaded their fields and as a result, they have no land to grow food on. Farmers move to the city to find another job.
- 12. Name one agricultural method that people in Bangladesh use to adapt with floods and rising sea levels.** In parts of Bangladesh that experience severe flooding, people have constructed floating gardens made of layers of water hyacinth and bamboo. They plant vegetables on this floating garden. Using this method, families can still have food to eat during floods.

# Here Comes The Flood

## **Bangladesh**

- <http://www.bbc.com/news/world-south-asia-12650940>
- <https://www.cia.gov/library/publications/the-world-factbook/geos/bg.html>
- <http://ngm.nationalgeographic.com/2011/05/bangladesh/belt-text>

## **Rising Sea Levels**

- <http://ocean.nationalgeographic.com/ocean/critical-issues-sea-level-rise/>
- <http://www.livescience.com/51990-sea-level-rise-unknowns.html>
- <http://www.worldbank.org/en/news/press-release/2013/06/19/warming-climate-to-hit-bangladesh-hard-with-sea-level-rise-more-floods-and-cyclones-world-bank-report-says>

## **Global Warming**

- <http://environment.nationalgeographic.com/environment/global-warming/>
- <http://www.globalwarming.org/http://www.ncdo.nl/artikel/climate-change-its-impacts-bangladesh>

## **Environmental Refugees**

- <http://education.nationalgeographic.org/encyclopedia/climate-refugee/>  
<http://www.bbc.com/news/world-asia-34674374>
- <http://climate.org/topics/environmental-security/index.html>