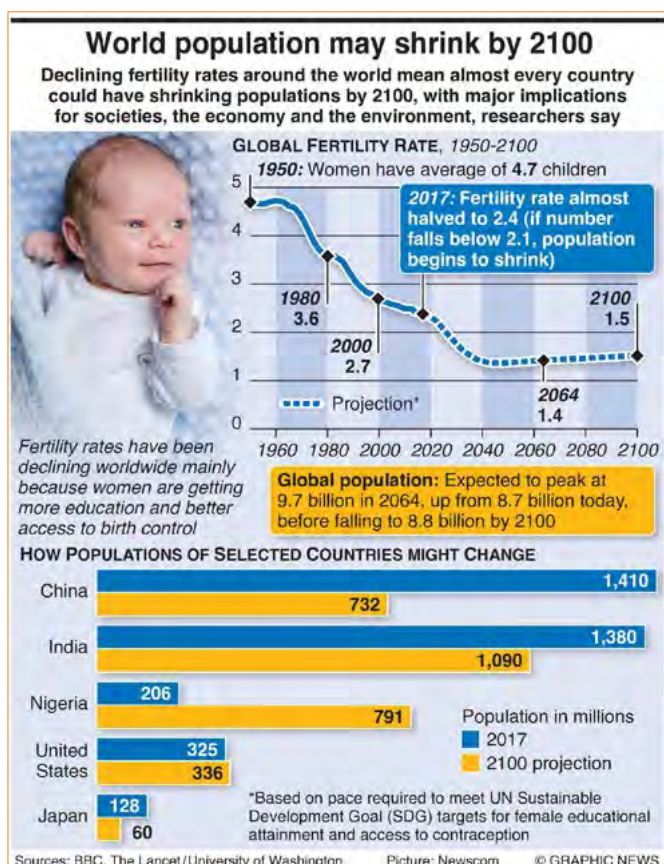


STAGE 6 SKILLS: POPULATION

POPULATION GROWTH RATES



A study, published in *The Lancet*, says 183 out of 195 countries will not be able to maintain current populations by the end of the century.

23 countries, including Japan, Thailand and Spain, are expected to see their populations halve by 2100. Another 34 would lose between a quarter and a half of their citizens. China is expected to lose 48 percent of its population.

More women in education and work, as well as greater access to contraception, is leading to fewer children being born.

If the fertility rate – the average number of children a woman gives birth to – falls below 2.1, the size of the population begins to decline. The global fertility rate is projected to fall below 1.7 resulting in the world's population peaking at 9.7 billion in 2064 before falling to 8.8 billion by the end of the century.

While declining populations are good news for the environment, reduce stress on food production systems and lower carbon emissions, most countries outside of Africa will see shrinking workforces and inverting population pyramids with negative consequences on the economies.

GRAPHIC NEWS 16/07/2020

ACTIVITIES

1. Define the concepts – fertility rate, population projection, population pyramid.
2. Calculate the proportional change in population between 1980 and that projected for 2064. (calculate as a %)
3. Calculate the proportional change in population in China between 2017 and the projection for 2100
4. Complete a PQE analysis for each graph
5. What explanations are used for the trends shown in the graphs?
5. Why is Nigeria predicted to have a different experience to other countries?
6. Challenge question: Assess the economic significance of an inverted population pyramid referred to in the text.
7. List three key ideas from the media report *Japan to help cover IVF costs in attempt to avert demographic crisis* at <https://www.theguardian.com/world/2020/nov/06/japan-to-help-cover-ivf-costs-in-attempt-to-avert-demographic-crisis?fbclid=IwAR25ADzt3i5FJKNUpxfcMn8T4lQjonooMkMD2tF0081bk9FtBHgalRjxqQ0>

Skills activities created by Lorraine Chaffer using Graphic News infographics.

PQE Method

Pattern: Give a general overview of any patterns you may identify. Look for things that stand out or form patterns.

Quantify: Add specific and accurate information to define and explain the patterns. Use statistics (quantities) such as amounts, sizes and locations to give specific details.

Exceptions: Identify everything that does not fit your patterns