## Year 7 Unit 3:



Professionalism. Inclusion. Pedagogy. Curriculum.
Be professional. Be inclusive. Be a learner. Be knowledgeable
Unit Overview: Global population change
ENQUIRY: Is 7 billion too many?

| Unit intention: |  |  |
| :--- | :--- | :--- |
| Success criteria | $\checkmark$ |  |
| - I can categorise factors affecting distribution | X |  |
| - I can draw and explain a population pyramid |  |  |
| - I can assess the success of the One-child policy |  |  |
| - I can explain how population is changing today |  |  |
| - I can compare the two main population theories |  |  |
| - . I can complete a choropleth map. |  |  |
|  |  |  |

Unit summative and formative assessment details:

Several EQs

Home Learning (What and how often):
Variety of consolidation sheets

## Topic Sequence

- Population density and distribution
- Population structure
- Population controls
- Reasons for migration
- Population theory
- UK population change

Recommended reading:
Bitesize -
https://www.bbc.co.uk/bitesize/guides/zkg82hv/revision/l
Population 10 Billion - In Study Centre
Places to visit:
Docklands museum - to look at how our area has
changed

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## End of Unit EVALUATION

Success criteria - Have you met them? Show your evidence in preparation for your assessment.
1.
2.
3.
4.
5.
6.

How will you improve your work?

| Year 7 (Term 2) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LI | Extending | Mastering | Learning | How assessed | HW |
| To understand what population density and distribution are | I can categorise factors affecting distribution | I can explain why population density is uneven | ```I can describe global population distribution``` | EQ | Density homework sheet |
| To understand how populations change over time | I can explain what a population pyramid shows | I can explain why birth and death rates change | I can calculate natural increase | EQ - <br> Population pyramid | Population pyramid review sheet |
| To understand how countries, try to control their population | I can assess the success of the One-child policy | I can describe a variety of ways of controlling population | I can describe problems caused by overpopulation | China EQ | Guided reading |
| To understand the causes of migration | I can explain why people migrate | I can identify push and pull factors | I can define the types of migration | EQ Migration | Pro-natalist policy |
| To understand how population might change in the future | I can explain how population is changing today | I can compare the two main population theories | I can name population theories | Is 7 billion too many? |  |
| To describe and explain the UK's population. | I can explain why population density varies in the UK | I can explain the link between relief and population | . I can complete a choropleth map. | Essay | 15 facts about London |

Glossary

| Key word | Definition |
| :--- | :--- |
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Lesson 1: Where does everybody live and why?
Big Picture

| L/M/E |  | I think I <br> can ... | My teacher <br> thinks I can ... |
| :--- | :--- | :--- | :--- |
| Learning | I can describe global population distribution |  |  |
| Mastering | I can explain why population density is uneven |  |  |
| Extending | I can categorise factors affecting distribution |  |  |

## Do it now: Complete the map



## Starter:

What is the population of....?
London $\qquad$
The UK $\qquad$
The EU $\qquad$
China $\qquad$
India $\qquad$
The World ?

## POPULATION OF THE EARTH

Number of people living worldwide since 1700 in billions


Source: United Nations World Population Prospects, Deutsche Stiftung Weltbevölkerung
For further information please visit: www.knowledge.allianz.com

Population density

When the population of an area is described as $\qquad$ populated there are lots of people in one area

When the population is described as $\qquad$ populated there are few people in one area.

Population distribution

The distribution is how the people are spread out.

This can be $\qquad$ or $\qquad$

Match $1=$
Match $2=$
Match $3=$
Population density rises when the population increases.
In the Sahara Desert there is less than 1 person per square kilometre.
In Holland there are around 500 people per square kilometre.

Why?

Where do we live?
People are not spread evenly over the world. Some of the most crowded places are in China, India, parts of Western Europe, and some areas of Africa and the USA. More and more people in the world are living in cities. The population distribution map below shows how unevenly people are spread around the world.

For each bullet point in each box, add one of the following words from the list below. These are categories which each factor could be sorted into. The Amazon Forest has been done for you as an example.


| Himalayan Mountains |
| :--- |
| - Too cold for people |
| - Steep slopes are bad for |
| communications and settlement |
| - Poor, thin soil unsuitable for crops |
| Sparsely populated |



| Bangladesh |
| :--- |
| - Low-lying and flat |
| - Rich, fertile soil. Hot and wet |
| - Ideal farming conditions |
| Densely populated |




Sort the statements into positives, then work out whether they are human or physical factors and negatives

| Pleasant climate | Poor water supply | Good water supply | Money available for investment | Wars and fighting |
| :---: | :---: | :---: | :---: | :---: |
| Lack of investment | Fertile soil for growing crops | Steep slopes | Good roads, railways, ports, etc. | A government that doesn't listen to its people |
| Industry and jobs | Dense fores $\dagger$ | Little industry and few jobs | Poor soils for farming | Government invests money |
| Too hot or too cold | Good food supply | Few natural resources | Open grassland for animals | Good education system |
| Too wet or too dry | Flat or gently sloping land | Poor transport links | Natural resources for industry | Established medical facilities. |


| Positives - encourage people to <br> live there | H/P | Negatives - prevent people from <br> living there | H/P |
| :--- | :--- | :--- | :--- |
|  |  |  |  |

Now put the factors into the pyramid


EQ What affects where we live? You must make references to the factors from the triangle to illustrate your answer.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Time to reflect

What does population mean?

What does distribution mean?

Why might an area be densely populated?

Why might an area be sparsely populated?

Lesson 2: Where and why do people live?
Big Picture

| L/M/E |  | I think I <br> can ... | My teacher <br> thinks I can ... |
| :--- | :--- | :--- | :--- |
| Learning | I can calculate natural increase |  |  |
| Mastering | I can explain why birth and death rates change |  |  |
| Extending | I can explain what a population pyramid shows |  |  |

## Do it now:



What can be found at:
458548
456535
$\qquad$
$\qquad$
459558 $\qquad$
464551 $\qquad$
468544 $\qquad$

What is the 6-figure grid reference of:

The Phone box $\qquad$
Mutton Cove
The train station NE of Devonport $\qquad$

## Starter:

## 25 most populated areas in the UK



Find the following words in the puzzle. Words are hidden $\uparrow \downarrow \rightarrow \leftarrow$ and $\downarrow$.

| BELFAST | EDINBURGH | NOTTINGHAM | WESTMIDLANDS |
| :--- | :--- | :--- | :--- |
| BIRKENHEAD | GLASGOW | READING | GREATER LONDON |
| BIRMINGHAM | WEST YORKSHIRE | SHEFFIELD |  |
| BOURNEMOUTH | KINGSTON UPON | SOUTHAMPTON |  |
| BRIGHTON | HULL | SWANSEA |  |
| BRISTOL | GREATER | TEESIDE |  |
| CARDIFF | MANCHESTER | THE POTTERIES |  |
| COVENTRY | LEICESTER | TYNESIDE |  |
|  | LIVERPOOL |  |  |


| Country | Birth <br> rate | Death rate | Natural change <br> (population growth <br> rate) |
| :--- | :--- | :--- | :--- |
| Kenya | 45 | 12 |  |
| India | 29 | 10 |  |
| Brazil | 25 | 7 |  |
| China | 19 | 7 |  |
| USA | 16 | 9 |  |
| Australia | 15 | 7 | +2 |
| UK | 13 | 11 |  |
| Italy | 10 | 11 | 8 |
| Japan | 10 | 7 |  |

1. Calculate the population growth rate for each country.
2. How does the population growth rate differ between the UK and Kenya? Refer to BR and DR.
3. Suggest reasons why the population growth rate is higher in Kenya than in the UK.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

| War | Children need to work for the <br> family | Clean water supply |
| :---: | :---: | :---: |
| Food shortage (or famine in <br> extreme cases) | Old age pensions | Improved healthcare (better <br> hospitals and doctors) |
| Education | Birth control available <br> High infant mortality rates <br> (children die as infants) <br> Disease or illness <br> Lapply | Cultural tradition to have for harvest/reliable food <br> large families |
| Lack of family planning and <br> contraception | Childcare is expensive | Early marriage (marrying at a <br> young age) |
| Improved status of women |  |  |

Complete the table:

| Birth rate | Low | High | Low |
| :--- | :--- | :--- | :--- |
| High |  |  |  |
|  |  |  |  |

Below is a list of newspaper headlines. Study each one and decide if it is referring to a factor which would cause population to rise or fall, then explain your reasoning.

| Flu epidemic spreads: death toll <br> rises |  | Better medicine leads to longer life <br> expectancy |  |
| :--- | :--- | :--- | :--- |
| Record rice harvest in China |  | Improved water supply for Africa's <br> driest countries |  |
| Aids virus: millions infected | Children needed to help with work <br> in Bangladesh |  |  |
| Rice crop destroyed by monsoon <br> rain | Fall in infant death rates in third <br> world | Traditions for larger families |  |
| Millions of Indian children get Polio <br> jab |  | Gm crops: the answer to world <br> food shortages | Wars break out in many Asian <br> countries |
| Poor health care in third world <br> countries | Hope with cancer research <br> breakthrough |  |  |
| Smaller families forecast in MEDCs |  | $5^{\text {th }}$ year of drought causes <br> starvation in Ethiopia |  |
| AlDS cure still years away, say <br> scientists |  |  |  |
| African harvest to fail again |  |  |  |
| Birth control measures promoted in <br> china |  |  |  |

'Population structure' is how the $\qquad$ .of a country is up.

In other words, it is $\qquad$ people there are in each $\qquad$ and how many of them are $\qquad$ or

This can be show by a $\qquad$


What does this graph show? $\qquad$

Which is the largest age group? $\qquad$
Which is the smallest age group? $\qquad$
What percentage of males are aged between 35-39

## How to Read a Population Pyramid:

Left hand side shows $\qquad$ population and the right hand side shows $\qquad$ population.

The $\qquad$ of the $\qquad$ represent the $\qquad$ of the population in a certain $\qquad$ .

The $Y$ axis shows the age groups which can be in $\qquad$ e.g. $\qquad$ or simply go up in
$\qquad$ years.

The $X$ axis show the $\qquad$ in that $\qquad$
HIC- Belgium
$\qquad$ base = low $\qquad$ so $\qquad$ population growth
$\qquad$ \& $\qquad$ rates are $\qquad$
sides not $\qquad$ = not many people $\qquad$
Longer $\qquad$
LIC - Belize
$\qquad$ base $=$ higher $\qquad$
rapidly $\qquad$ sides $=$ high $\qquad$
$\qquad$ point = $\qquad$ people live to $\qquad$ age
majority of the population is $\qquad$ .

Choose the correct statements to go with each pyramid. Write the statement around the correct pyramid.

| A | High birth rates | F | Poor medical care creates high infant <br> mortality rates |
| :--- | :--- | :--- | :--- |
| B | Very few doctors | G | The average person is expected to live <br> above the age of 60. |
| C | Low death rates caused by a good <br> quality of life. | H | Low life expectancy caused by a poor <br> diet and widespread disease. |
| D | Too many economically dependent <br> in comparison to economically <br> active. | I | Large numbers of people at a working <br> age - economically active. |
| E | Reducing birth rates due to the <br> growing cost of raising a family. | J | Free health care |



Describe how the UK's population structure will change from 2011 to 2050 (6 marks).

## Time to reflect:

Lesson 3: Can we control population size?
Big Picture

| L/M/E | Learning Objective | I think I <br> can ... | My teacher <br> thinks I can ... |
| :--- | :--- | :--- | :--- |
| Learning | I can describe problems caused by over- <br> population |  |  |
| Mastering | I can describe a variety of ways of controlling <br> population |  |  |
| Extending | I can assess the success of the One-child <br> policy |  |  |

## Do now:

Name the 7 continents $\qquad$

Latitude is an imaginary line showing how far. $\qquad$ or $\qquad$ a place is.

Longitude is an imaginary line showing how far. $\qquad$ or $\qquad$ a place is.

The line of longitude running along $0^{\circ}$ is called the $\qquad$
The line of latitude running at $23.5^{\circ} \mathrm{N}$ is the $\qquad$

Starter: Population problems
People are now living longer than ever before. As a result, this put stress on our services, such as hospital care.


## 

Here are two different countries with predicted population pyramids for 2025. Describe their population pyramids

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

| Challenges | Opportunities |
| :--- | :--- |
|  |  |
|  |  |
|  |  |

Sort the statements on the next page into:

|  | Causes |
| :--- | :--- |
|  | Effects |


| In 2005, $16 \%$ of the population in the UK <br> were over the age of 65. | Increasing life expectancy which currently <br> stands at 78. As people live longer, the <br> number of older people increases. | Falling birth rates - there are fewer young <br> people, so the proportion of older people is <br> greater. The average UK women gives birth to <br> 1.5 children. |
| :--- | :--- | :--- |
| Baby booms - lots of babies were born <br> in the 1940 s -60s. These large <br> generations are starting to retire, <br> increasing the number of elderly people. | Pressure on the pension systems - there <br> aren't enough people of working-age to <br> pay for an adequate pension for the retired <br> population. | By 2030, only $56 \%$ of the population will be of <br> working-age but the taxes they pay will have to <br> pay for the pensions of the 27\% of the population <br> of retirement age. |
| More elderly people living in poverty - <br> the state pension is not very large and <br> many people don't have other savings. | Pressure on the health service - older <br> people often need more medical care than <br> younger people. The average stay in <br> hospital in 2005 for people aged 75 and <br> over was 13 nights | The working population may have fewer children <br> because they already have older dependents, <br> leading to a reduction in the birth rate. |
| Some people may be forced to work <br> beyond normal retirement age to <br> supplement their pensions. | Reduced work force - a smaller proportion <br> of the populationis working which may slow <br> economic growth. | Increased taxes - a greater number of people <br> claiming a pension will mean higher taxes for the <br> working population. |
| Increased pressure on public services - <br> there's greater demand for services like <br> hospitals and hospices. more people will <br> act as unpaid carers to their own elderly <br> family members. | Unequal distribution of older people. Areas <br> with highnumbers may have inadequate <br> facilities for younger people, e.g. bars or <br> youth clubs. | Younger retired people contribute lots to the <br> economy. They have reasonable amounts of <br> money and lots of leisure time hence are good <br> consumers. |
| Many retired people do voluntary work <br> in schools and for charities that is <br> essential work but done for free. | Many retired grandparents are now fulfiling <br> child care roles for their grand children as <br> the cost of child care rises |  |




## Vladimir Putin vows to reverse Russian population decline - 22/6/14

In 2006, Vladimir Putin described population decline as the country's most urgent problem. At that time 16 Russians died for every 10.4 babies born, with the population declining by 700,000 people a year.

Causes of the problem
Women in Russia have careers, and put off having children, often marrying later and therefore having fewer children. As well as this, the death rate is high in Russia due to high levels of heart disease, accidents, violence and suicide. Smoking rates are among the highest in the world (twice as high as in the USA). Environmental conditions, especially in the work place, are often poor

Government Incentives
In 2007, the government introduced a programme to pay $\$ 11,000$ to mothers who have more than one child. The money can be put toward buying a house or toward the child's education or be deposited into the mother's pension account.

Success?
Official figures show that about 1.9 million babies were born in Russia in 2015, up from 1.5 million in 2005. In 2013, the country saw the number of births surpass the number of deaths for the first time in over 20 years. The mortality rate has dropped rapidly in the last few years, mainly due to new legislation restricting the sale and advertisement of alcohol in 2016, together with government-sponsored sport to encourage more healthy lifestyles. There has been a slight natural increase in population, but not enough to make a significant difference. The population of Russia is still ageing.

## How do countries fight falling birth rates? BBC 15 January 2020

Russia has promised greater support for parents as the country continues to struggle with a low birth rate.
"We have to help young people, those who want a family life and are dreaming about children," President Vladimir Putin said in an annual address to lawmakers.

Countries need to have a birth rate of at least 2.1 children per woman to sustain the population, but the average figure in Europe is about 1.59.
'Remarkable' decline in fertility rates
According to the UN, two-thirds of countries in Europe have introduced measures to increase fertility rates, from baby bonuses and tax incentives to paid parental leave, with varying degrees of success.

What did Putin promise?
President Putin says that Russia's birth rate is currently at 1.48 women per children. While this is a significant increase from 1999, when the figure fell to 1.16, Mr Putin hopes to raise the level to 1.7.

Under the proposals, first-time mothers would be eligible to receive maternity benefits previously paid only to women with two or more children.

Welfare benefits would also be paid for children aged three to seven in low-income families, and free school meals would be provided for the first four years of school.

Last year, Mr Putin promised tax breaks for bigger families. A one-off "maternity capital" payment, currently worth $£ 5,800(\$ 7,600 ; € 6,800)$, was introduced for families with two or more children in 2007 under a 10-year programme.

Demography expert Prof Evgeny Yakovlev told BBC Russian that the move had temporarily increased the number of families with two children but added that financial uncertainty subsequently led to another fall in the birth rate.

Answer the questions:
Why has Russia's population fallen?

How much is the population declining every year?
What does incentive mean?

What measures did Putin put in place to encourage more births?
$\qquad$
$\qquad$

What does legislation mean?

What is Russia's birth rate?<br>What else could Russia do to encourage more births?

## China's population policy

What do this images suggest?
$\qquad$
$\qquad$
What questions do you have about this?
$\qquad$
$\qquad$
$\qquad$
A 'One Child Policy' was brought into force in 1978, with a purpose to limit the majority of families in the country to one child each. It was hoped to reduce the growth rate of China's enormous population. Benefits for those families who had only one child included: increased access to education, healthcare and community facilities. Families who broke the rule were often heavily fined. There were special rules depending on where families lived. A negative point is that twins were often separated at birth. The policy was changed in 2016.

- Pick five key words from the passage above
- Summarise the passage above in less than 30 words
- Write a paragraph to explain why the One Child Policy was introduced
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$\qquad$
$\qquad$
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$\qquad$
$\qquad$

| The country was <br> severely <br> overpopulated <br> the Chinese <br> people | Starvation was a <br> major problem for <br> there is now a big <br> gender gap with 60 <br> million more men <br> than women | Female infanticide* <br> has increased since <br> the 1980s |  |
| :---: | :---: | :---: | :---: |
| Parents in China <br> receive the cost of <br> childcare and <br> medical expenses <br> for their one child. | Both parents are <br> able to work so <br> they will be <br> financially better <br> off | Abortion rate has <br> gone up as women <br> are pressured if <br> pregnant for a 2 | There was not enough <br> shelter for all the <br> population |
| Babies are being <br> abandoned, <br> particularly baby <br> girls as women are <br> less superior in <br> Chinese society | There will be <br> nobody to look <br> after the elderly | Children get more <br> time with their <br> parents | Couples who break <br> the policy are often <br> forced into sterilisation- <br> human rights <br> infringement |


|  | Social |
| :--- | :--- |
|  | Economic |

## China's one-child policy - success or failure?

After three decades, the drawbacks of the one-child policy are more and more apparent

- China's pension system circles into crisis
- China faces growing gender imbalance

During the time that I grew up in China in the 1960s and 70s, Chinese families could have as many children as they liked. Many had four or five children. Some even had six or seven. My parents had four children. After the government started enforcing the rule of one child per family - often forcibly - my parents would sometimes jokingly remind me that I was an "exceeded quota person", meaning that under the one-child policy I would not have existed.

Chairman Mao, who led China from 1949 until his death in 1976, regarded a fast-growing population as a productive force necessary for China to become a great power. He treated brutally those who dared to question him and believed that China should control its population. His successor Deng Xiaoping started to reverse the trend. He felt the tremendous drag China's huge population had on its fragile economic recovery after years of political trouble.

The first children born under the one-child policy face the prospect of caring for an everincreasing number of pensioners"

On 25 September 1980, the Communist Party issued an "open letter" to all members of the party and the Communist youth league, urging them to take the lead in having only one child. This is widely seen as the beginning of the controversial one-child policy. The
government claims that the policy has helped the country achieve 400 million fewer births during the past 30 years.

But this has come at a painful cost - keenly felt by my generation and those after us.
One of my childhood friends, who didn't want to reveal his name, has had to let his daughter, his second child, call him uncle in order to escape punishment for breaking the rule.

He says it breaks his heart every time he talks about his daughter, who is officially registered as someone else's child.

A female friend, like countless other young couples in China, had to pay a large fine for having a second child. But she believed the money was worth it.

Falling fertility
Officials have repeatedly stressed that the policy has helped reduce the pressure of population growth on society and economic development, will continue. But the government has already been challenged over whether the 400 million fewer births were entirely due to the implementation of this policy.

China faces the looming problem of a rapidly ageing society with not enough young carers.

The debate over whether the one-child policy is still needed was recently stirred up by a newspaper report about the little publicised case of Yicheng county, in the northern province of Shanxi.

Yicheng has been experimenting with a two-child policy for 25 years. Despite its more relaxed regulations, the county has a lower than average population growth rate, the report said.

After three decades, the drawbacks of the one-child policy are more and more apparent.

Even though China still has the largest population in the world, a report last month by the Chinese Academy of Social Sciences, said officials were seriously overestimating the fertility rate.

Instead of suppressing it, the report said the government should try to lift it. More and more people in China, largely in urban areas, prefer to have fewer children.

It is unclear when Beijing might end the one-child policy. But attention will be focused on an upcoming meeting of the party central committee next month.

Clearly, the situation is becoming urgent. Already the country's population is ageing fast. The first children born under the one-child policy face the prospect of caring for an everincreasing number of pensioners.

China also faces the daunting prospect of many men who can't find wives as many female foetuses have been aborted, resulting in a huge gender imbalance.

Lesson 4 Why do people migrate?
Big Picture

| L/M/E |  | I think I <br> can ... | My teacher <br> thinks I can ... |
| :--- | :--- | :--- | :--- |
| Learning | I can define the types of migration |  |  |
| Mastering | I can identify push and pull factors |  |  |
| Extending | I can explain why people migrate |  |  |

## Do it now:



Starter: What is the image trying to represent?

$\qquad$
$\qquad$
$\qquad$

Migration is
3 Migration routes on the map are
$\qquad$
$\qquad$
$\qquad$
$\qquad$


| Picture 1 |  |
| :---: | :---: |
| Good things: |  |
|  | 1-.......................................... |
|  |  |
| Bad things: |  |
|  | 1 - ........................................... |
|  |  |
| Picture 2 |  |
| Good things: |  |
|  |  |
|  |  |
|  | Bad things: |
|  | 1-_........................................... |
|  | $2-\ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ |

Push factor:
$\qquad$
$\qquad$

Pull factor:
$\qquad$
$\qquad$
$\qquad$

| Push factor | Pull factor |
| :--- | :--- |
| My country is involved in a civil <br> war |  |


| Internal Migrant |
| :--- |
| Emigration |
| Immigration |
| Refugee |
| Asylum Seeker |

People who have been forced to leave their home country and are often homeless.

A person arriving in a country with the intention of settling there.

People who have sought protection from a country other than the one they were born in.

A person moving from one area to another in the same country.

A person leaving a country with the intention of settling somewhere else

[^0]$\qquad$
$\qquad$
$\qquad$

Check so far:

## A refugee is the name given to:

a. people who are forced to leave their home and country because of something they have done wrong
b. people who are forced to leave their home and country to escape war, persecution or natural disaster.

## Refugees are able to:

a. return home whenever they like
b. cannot return home easily

## Refugees are:

a. happy to leave their home and country
b. afraid and sad to leave their home and country

## Refugees are able to:

a. take all their possessions with them when they leave
b. have to leave most of their possessions at home and take only what they can carry

## Refugees move into:

a. lovely new homes in a new country
b. tents in a temporary camp

## Refugees have:

a. lots of food, a balanced diet and clean water
b. very little food, a balanced diet and clean water

## Refugee children:

a. are able to go to a good school with lots of resources and equipment
b. often stop attending school or attend schools in makeshift buildings with no pens or paper

What is one difference between refugees and you and me?

What events do you think could have happened to cause a person to flee and leave everything behind?

What types of experiences might refugees endure during their escape?
$\qquad$

How would you feel if you were a refugee who had to leave your home, family and possessions behind and live in another country? $\qquad$
$\qquad$
$\qquad$


1. Name 2 continents which have a lot of immigrants
2. Name 2 continents which have few immigrants.

## 3. Can you see a pattern?

## Pen to paper: Exam practice

1) Migration happens because of push and pull factors. Describe what push and pull factors are. (4 marks)

Figure 1
Between 2004 and 2007 it's estimated that more than half a million Poles migrated to the UK. The reasons vary from person to person, but most are thought to be economic migrants that want to support their family back in Poland. Unlike most EU countries the UK doesn't have a limit on the number of immigrants it will accept from Poland.
2) (a) Using Figure 1, suggest two push factors that might have caused Polish people to migrate to the UK. (2 marks)
$\qquad$
$\qquad$
$\qquad$
(b) Using Figure 1, suggest two pull factors that caused Polish people to migrate to the UK. (2 marks)
$\qquad$
$\qquad$
$\qquad$

## Remittances:

$\qquad$
$\qquad$
Time to reflect: What type of migration?
1.
2.
3.
4.
5.

## Lesson 5: Will the population keep growing?

## Big Picture

| L/M/E | Learning Objective | I think I <br> can ... | My teacher <br> thinks I can ... |
| :--- | :--- | :--- | :--- |
| Learning | I can name population theories |  |  |
| Mastering | I can compare the two main population <br> theories |  |  |
| Extending | I can explain how population is changing today |  |  |

## Do now:



## Starter:

Describe the population structure for Uganda.



## Population theory

In 2009, Professor John Beddington, the UK government's chief scientific advisor, said:
'Our food reserves are at a 50-year low, but by 2030 we need to be producing $50 \%$ more food. At the same time, we will need $50 \%$ more energy, and $30 \%$ more fresh water'

He was describing what has been called the '2030 perfect storm' idea. It argues that by 2030 the world will be running out of resources. It is not a new idea. Geographers have worried about the number of people on the planet for at least 200 years. There are two viewpoints:

| View | In a bit more detail | People who held <br> this view | Sometimes called ... |
| :--- | :--- | :--- | :--- |
| Pessimistic | Population will eventually <br> grow so large that the planet <br> will run out of food, water, <br> energy and other resources, <br> leading to a crisis | Thomas Malthus <br> Professor John <br> Beddington | Malthusians or Neo- <br> Malthusians |
| Optimistic | As population grows, <br> humans invent new <br> technologies to allow more <br> food to be grown, and more <br> resources to be supplied | Ester Boserup <br> Julian Simon | Boserupians |

## Malthus 1766-1834

Thomas Malthus was born in 1766 and lived in England. He worked as a curate in Surrey. A curate is someone who cares for the people who use the chapel. In 1798, Thomas Malthus wrote an influential book. It influenced the way that many people think about resources and population growth. The book was called 'An Essay on the Principle of Population'.

He argued that population would increase geometrically ( $1,2,4,8,16$ etc) by doubling in each generation, but that food production could only increase arithmetically (1,2,3,4,5 etc). In this way, population would eventually outstrip food supply, leading to a 'population vs resources crisis'. Population would have to fall, which would happen by:

Positive checks - war, starvation and famine would reduce population
Preventative checks - people marrying later and having fewer children
The balance between population and food supply would, therefore, be restored

## Ester Boserup 1910-1990

Ester Boserup was a Danish and French economist. She wrote several influential books on agricultural production and the role of women in development. Her most famous was in 1965 called 'The conditions of Agricultural growth'

After graduating from the University of Copenhagen she worked for the Danish government until 1947. In 1957 Ester and her husband moved to India, where they worked and lived until 1960.

Her book didn't agree with many of the views around at the time.
Boserup made the case that populations do not run out of food. As the population increases so does the rate of agricultural production. This means that the increase in pressure on agricultural production meant that more food had to be produced. This increase in food production would be achieved through improvements like more efficient use of land, a larger workforce, the use of more advanced tools and machines, and the use of fertilisers

Boserup's study was based on India. As time went by, more researchers were inspired to go and measure agricultural production. Time and time again, researchers found that the level of agricultural production increased to match the increase in population.

| When was Thomas <br> Malthus born? |  | Which country was <br> Malthus from? |  |
| :--- | :--- | :--- | :--- |
| What job did <br> Thomas Malthus do? |  | What is agriculture? |  |
| What do pessimists <br> think about <br> population? |  | What is a famine? |  |
| What do optimists <br> think about <br> population? |  | What did Boserup <br> believe? |  |
| What does <br> geometrically <br> mean? |  | When was Boserup <br> born? |  |
| What does <br> arithmetically <br> mean? |  | Which country did <br> Boserup study in? |  |
| What are positive <br> checks? |  | Which country was <br> Boserup's book <br> based on? |  |
| What are <br> preventative <br> checks? | What does the 2030 <br> perfect storm refer <br> to? |  |  |



Time


Time

Video notes



## Time to reflect:

Is 7 billion people too many for the planet?
Give your view and explain it
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Lesson 6: How and why has the UK's population changed?
Big Picture

| L/M/E | Learning Objective | I think I <br> can ... | My teacher <br> thinks I can ... |
| :--- | :--- | :--- | :--- |
| Learning | I can complete a choropleth map |  |  |
| Mastering | I can explain the link between relief and <br> population |  |  |
| Extending | I can explain why population density varies in <br> the UK |  |  |

## Do now: What are these symbols?



Starter: - what will the UK's population be by the end of the lesson?


What does population density mean?
Population density means
What does the physical map of the UK show?
The physical map of the UK shows $\qquad$
$\qquad$

Look at both maps together. Can you explain why people in the UK live in certain parts and not others?
The population of the UK mainly live where the land is
This is because
$\qquad$
$\qquad$
$\qquad$
This means $\qquad$
$\qquad$
I also know $\qquad$
$\qquad$
$\qquad$

| Region of the UK | Population (in Millions) |
| :--- | :--- |
| North East | 2.6 |
| North West | 7.1 |
| Yorkshire and Humber | 5.3 |
| East Midlands | 4.5 |
| West Midlands | 5.6 |
| East England | 5.8 |
| London | 8.6 |
| South East | 8.6 |
| South West | 5.3 |
| Wales | 3.1 |
| Scotland | 5.2 |
| Northern Ireland | 1.8 |



A choropleth map to show the population of the UK

Describe the population
distribution of the UK
regions and suggest reasons for these distributions.
Define what is meant by the term 'population distribution'.
Describe the distribution of the population of the UK. Is it even?

Compare the population of different regions of the UK. Have you included region names?
Have you included data as evidence?
Have you included comparing connectives?

Explain why some regions are less densely populated than others.
Have you included region names? Have you included keywords? Have you used a physical map of the UK to give reasons? Have you included connectives?

Suggest what will happen in the future to the UK's population distribution. Have you included region names? Have you included data? Have you included connectives to explain why you think this?
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Reflect and review
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How has the UK's population changed? Use the key words on the board to describe what the graph shows

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The distribution of the UK's major cities and most $\qquad$ populated areas reflected its
$\qquad$ past. This was shaped by the Industrial Revolution in the eighteenth century. There was a development of $\qquad$ industries and concentration of $\qquad$ near supplies of $\qquad$ and raw materials such as iron $\qquad$ _.
(industrial, densely, ore, heavy, population, coal)
$\qquad$ developed because of its position as the capital of the UK. Belfast, Cardiff and Edinburgh also grew because of their functions as capital cities. The UK's second city
$\qquad$ grew mainly as a centre of industrial $\qquad$ due to its key
$\qquad$ in the country. The UK's position as an important $\qquad$ nation explains the growth of $\qquad$ such as London, Liverpool and Bristol.

True or false
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| What have you learned about <br> Global Population? Top 3 <br> pieces of information |  |
| :--- | :--- |
| Why were you studying this <br> topic? Why is it important? |  |
| Out of the 6 lessons in the <br> journey above, which lesson <br> did you learn the most from? |  |
| What is the 1 key message/ <br> fact that you will remember <br> from this topic? |  |
| When we teach this unit again <br> next year, what else do you <br> think we should teach about? <br> What was missing from this <br> unit? |  |


[^0]:    Superstar Challenge: What reasons would make people become a refugee or asylum seeker?

