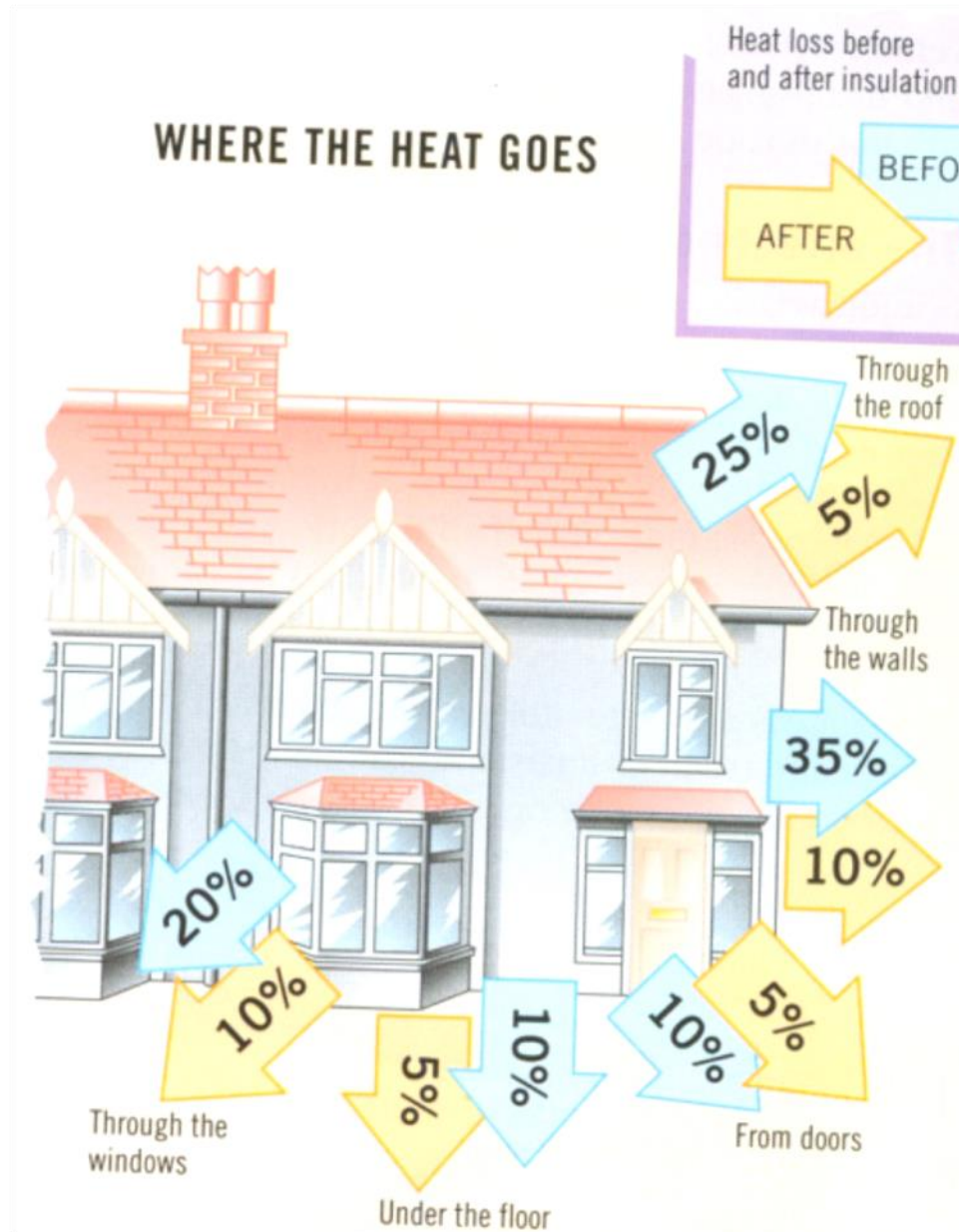


1. Using the information given in Figure 1 and ideas of your own, design and label your own energy-efficient house.

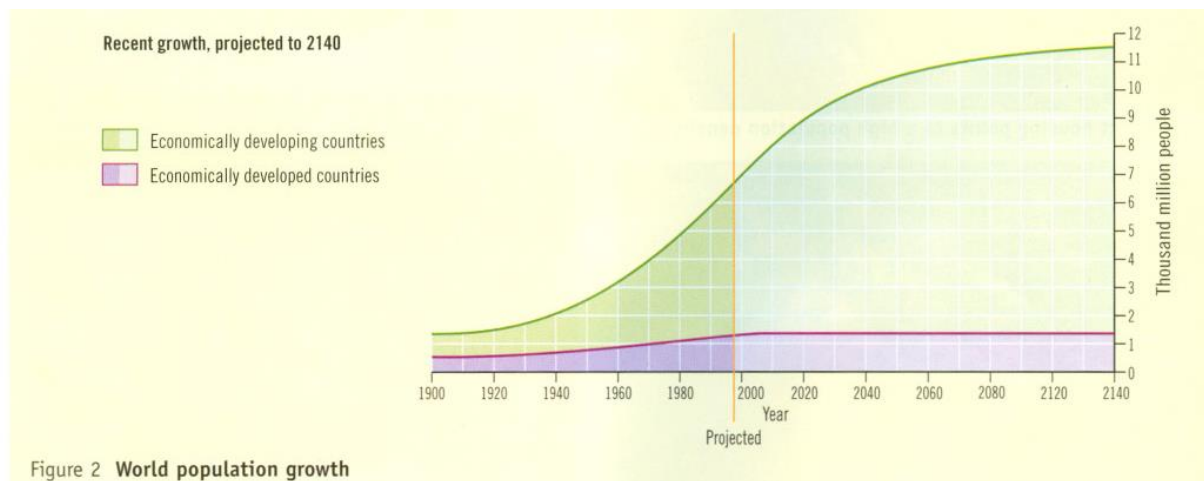


2. a

Describe the growth of the world's population (1) up to 1650, (2) from 1650 to 1900 and (3) from 1900 to 2012.

2. b

Using your knowledge of natural increase, birth rate and death rate, explain the changes in the growth rate.



3. *"This house believes deforestation in the Amazon rainforest should be stopped."*

For each of the following groups of people, prepare a short speech arguing for or against this motion:

- a. a native Indian
- b. a logger
- c. a rancher
- d. a United Nations environmental advisor

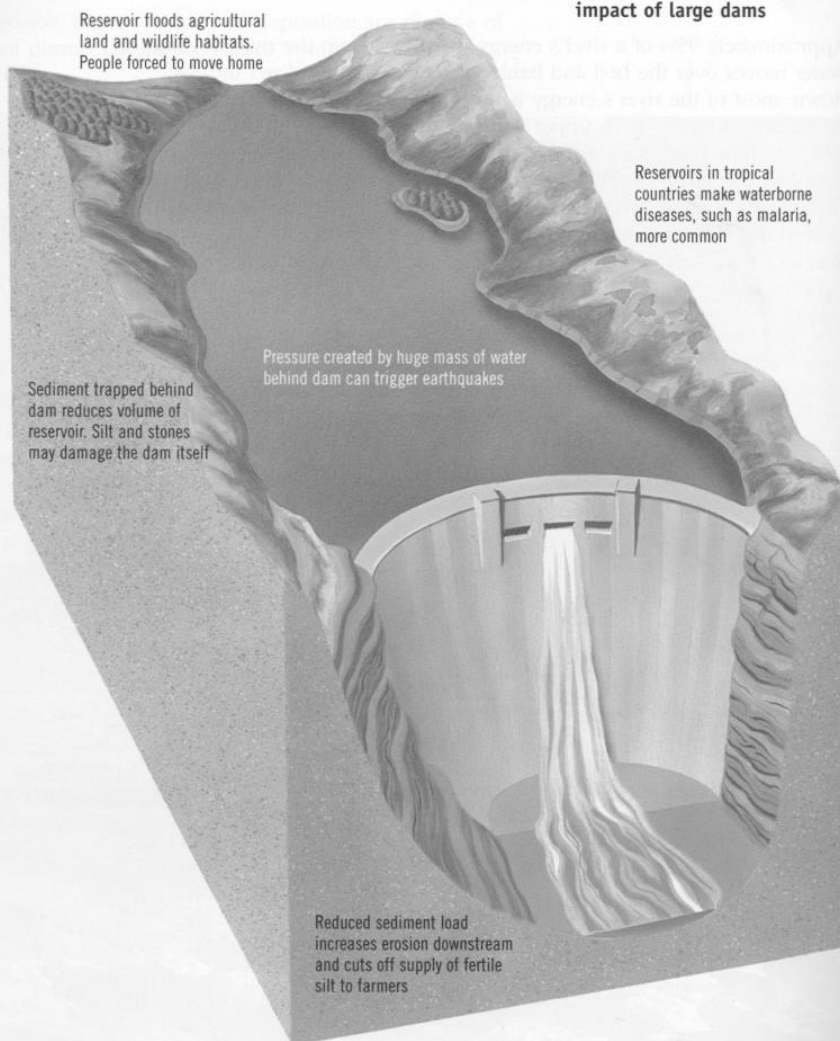
4.

Factsheet

The Three Gorges Dam Project

- The project will take up to 20 years to build and could cost US \$70 billion, possibly diverting funds from other developments.
- Several large towns, including Wanxian (population 140 000) and Fuling (population 80 000) will be flooded.
- It will provide electricity for Shanghai, one of the world's largest cities with a population of over 13 million, and Chongqing, population 3 million, an area earmarked for economic development.
- The dam could protect up to 10 million people from flooding.
- More than 1.2 million people will have to be resettled to make way for the dam and lake. Much of the land used for resettlement is over 800 m above sea level, where the climate is colder, the slopes steeper and the soil barely able to support farming.
- The 90-metre rise in water level created by the dam will allow shipping above the Three Gorges and turn the rapids in the gorge into a lake.
- The dam is likely to trap sediment behind it, eventually causing the reservoir to silt up. Areas downstream would be deprived of sediment.
- The 18 000 megawatts of energy generated will enable China to reduce its dependency on coal and contribute to a reduction in the emission of greenhouse gases.
- Landslides on the steep gorge sides could generate surge waves which would overtop the dam.
- The dam will quickly pay for itself from the electricity generated.
- There are concerns that the dam will interfere with aquatic life, including the already endangered Siberian crane.

Figure 4 The environmental impact of large dams



- 1 Construct a two-column table like the one shown. Complete it by identifying the possible advantages and disadvantages of the Three Gorges Dam Scheme.

The Yangtze River Three Gorges Dam Project

Advantages	Disadvantages

- 2 Imagine you are one of the following people: a Chinese government official, an environmentalist, a peasant farmer or a resident of Wanxian. Write a speech stating whether you are for or against the Three Gorges scheme, and your reasons for your choice.