

SUGGESTED SKILL

 *Environmental Solutions*

7.A

Describe environmental problems.



AVAILABLE RESOURCES

- Classroom Resource > [AP Environmental Science Teacher's Guide](#)
- The Exam > [Chief Reader Report 2017, Q3](#)
- The Exam > [Student Performance Q&A 2016, Q1](#)
- The Exam > Samples and Commentary (2017, Q3, 2016, Q1)

TOPIC 3.8

Human Population Dynamics

Required Course Content

ENDURING UNDERSTANDING

EIN-1

Human populations change in reaction to a variety of factors, including social and cultural factors.

LEARNING OBJECTIVE

EIN-1.C.1

Explain how human populations experience growth and decline.

ESSENTIAL KNOWLEDGE

EIN-1.C.1

Birth rates, infant mortality rates, and overall death rates, access to family planning, access to good nutrition, access to education, and postponement of marriage all affect whether a human population is growing or declining.

EIN-1.C.2

Factors limiting global human population include the Earth's carrying capacity and the basic factors that limit human population growth as set forth by Malthusian theory.

EIN-1.C.3

Population growth can be affected by both density-independent factors, such as major storms, fires, heat waves, or droughts, and density-dependent factors, such as access to clean water and air, food availability, disease transmission, or territory size.

EIN-1.C.4

The rule of 70 states that dividing the number 70 by the percentage population growth rate approximates the population's doubling time.