

**Chapter 3**

NAME \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

1. Which type of ultraviolet radiation is the most harmful to living organisms on earth?

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2. What is meant by the term "carbon-based society?"

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3. What are hydrocarbons?

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4. What does carbon footprint mean?

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5. What are the six things people can do to reduce their individual carbon footprint?

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## Answer Key

Testname: EV1SHORT03

1. UVB, is only partially absorbed by the ozone layer and can cause damage to biological organisms.  
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2. An economy that uses only carbon- based fuels is often referred to as a carbon-based society.  
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3. Carbon atoms are attached to hydrogen atoms to form hydrocarbons, abbreviated HC.  
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4. Total carbon footprint includes energy- related emissions from human activities, including heat, light, power, refrigeration, and all transport-related emissions from vehicles, freight, and distribution. The carbon footprint is a representation of the effect a person or organization has on the climate in terms of the total volume of greenhouse gases (mostly carbon dioxide) produced.  
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5. The following is a list of simple things that can be done immediately that will start to reduce the contribution to climate change.
  1. Turn electrical devices off when not in use, such as lights, television, and computer.
  2. Turn down the central heating slightly (try just 1 to 2 degrees).
  3. Turn down the water heating setting (just 2 degrees will make a significant saving).
  4. Check the central heating timer setting—there is no point in heating the house if everyone is at work during the day.
  5. Fill the dishwasher and washing machine with a full load— this will save water and electricity, as well as detergent.
  6. Unplug the cell phone as soon as it has finished charging.
  7. Defrost the freezer regularly; if not done automatically, consider disabling the automatic function to save electricity.
  8. Do shopping in a single trip.
  9. Travel less and when traveling, use more using carbon-footprint-friendly vehicles.
  10. Purchase a fuel-efficient vehicle, such an electric vehicle (EV) or hybrid electric vehicle (HEV).Page Ref: 34