# HYDROGEN BINGO

A. Knows the atomic number of hydrogen

B. Knows the percentage of U.S. energy consumption supplied by renewables

C. Knows the process that produces energy in the sun's core

D. Can define energy carrier

E. Knows what a fuel cell is

F. Can define distributed generation

G. Knows a process that separates water into hydrogen and oxygen

H. Knows the number of neutrons in a hydrogen atom

I. Knows in what form energy from the sun travels to the Earth

J. Can name four renewable energy sources

K. Knows the percentage of U.S. energy consumption supplied by fossil fuels

L. Knows the top energy carrier used in the U.S.

M. Knows the U.S. percentage of world population

N. Can name four renewable energy sources

O. Knows the U.S. percentage of world energy consumption

P. Can name two ways hydrogen is used today

| | | | |
|---|---|---|---|
| A<br>NAME | B<br>NAME | C<br>NAME | D<br>NAME |
| E<br>NAME | F<br>NAME | G<br>NAME | H<br>NAME |
| I<br>NAME | J<br>NAME | K<br>NAME | L<br>NAME |
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## ANSWERS

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| | | | |
|---|---|---|---|
| **A**<br>the atomic number for hydrogen is 1 | **B**<br>renewables supply about 9 percent of U.S. energy consumption | **C**<br>FUSION<br>of hydrogen into helium produces energy in the sun's core | **D**<br>a system or substance that moves energy from one place to another |
| **E**<br>a device that uses chemical reaction to produce electricity - a battery | **F**<br>distributed generation is electricity produced near the site of the consumer | **G**<br>ELECTROLYSIS<br>separates water into hydrogen and oxygen | **H**<br>no neutrons in a simple hydrogen atom (deuterium and tritium isotopes have neutrons) |
| **I**<br>energy from the sun travels to Earth in the form of radiant energy | **J**<br>renewables:<br>solar, wind, hydropower, biomass, geothermal | **K**<br>fossil fuels supply almost 83 percent of total U.S. consumption | **L**<br>electricity is the top energy carrier in the U.S. |
| **M**<br>the U.S. contains 4.49 percent of total world population | **N**<br>nonrenewables:<br>petroleum, natural gas, propane, coal, uranium | **O**<br>the U.S. accounts for 16 percent of total world energy consumption | **P**<br>used by industry for refining, treating metals, and processing foods; to fuel small hydrogen fuel cells to produce electricity; hydrogen fueled vehicles |