

Whole numbers

Place Value

- | | | |
|---|---|---|
| How much water was used to meet water needs in the United States? |  | 1 |
| How many people in the U.S. are protected from air pollution? |  | 3 |

Rounding

- | | | |
|--|---|---|
| How many species are threatened with extinction? |  | 4 |
|--|---|---|

Addition & Subtraction

- | | | |
|--|--|----|
| What state used the most wind energy per person? |  | 5 |
| What is the COP meeting for? |  | 7 |
| Which is used more, surface water or groundwater? |  | 9 |
| How many sea turtles did we lose from the oil spill? |  | 10 |

Multiplication & Division

- | | | |
|---|---|----|
| How much water does it take to produce a beefsteak? |  | 11 |
| Which car goes farther on a gallon of gasoline – Ford F-150 or Toyota RAV4? |  | 13 |
| How many plastic bags can Olivia save? |  | 14 |
| How many plastic bags are found in the ocean? |  | 15 |
| How much energy can you save by recycling aluminum cans? |  | 16 |

Multiplication & Division

How much money do LED light bulbs save?



17

Decimals

Number Comparison

How many families could be powered by solar energy?



18

What trash was thrown away the most?



19

Place value & Rounding

Which country had more electric cars? – the U.S. or Japan?



20

Addition & Subtraction

Has plastic bottle recycling increased or decreased?



21

What U.S. company used the most solar energy?



22

Is the electricity price in California different from Alaska?



23

Multiplication & Division

How much water can you save in the bathroom?



25

Which do we pay more for electricity – charging your phone or baking cookies?



26

Fractions

Number Comparison

Which country threw away the most trash per person?



27

Ratio

How big are wind turbines?



28

What state produced the most coal?



29

Addition & Subtraction

How much trash was sent to landfills?



30

Multiplication & Division

How much grass do Asian elephants eat a day?



31

How much forest are we losing every hour?



32

Which country emitted less CO₂ per person - the U.S. or China?



33

Can a lake shrink when overused?



34

How much recycled newspaper will save a tree?



35

Data Analysis

Bar graphs

Which country emitted more CO ₂ than China?		36
In which state did you pay more to play video games, Hawaii or NY?		37
Which energy source costs less to power an American home than wind energy?		38
Which country used the most water?		39
Did the United States use more coal or less ?		40
Which endangered animal is heavier, Tiger or Leopard?		41
Which fossil fuel produces the most CO ₂ to power your computer?		42

Circle graphs

What county used the most renewable energy in the world?		43
What sources are used to meet energy needs?		44
How was trash treated?		45
What will be the main energy source in the future?		46
What were the world's most CO ₂ - emitting countries?		47

Data Analysis (continued)

Circle graphs (continued)

What uses the most electricity in your house?		48
Which emitted more greenhouse gases, generating electricity or manufacturing products?		49
What is the most solar-powered state in the United States?		50
What uses the most water in the house?		51

Line graphs

Does the United States use more wind energy or less?		53
Did the United States recycle more aluminum cans or less?		55
How many bad air days did Los Angeles have?		56
Was more trash sent to landfills or less in the United States?		57
Have greenhouse gas emissions decreased in the United States?		58
In which month do you use the most water in the house?		59

Mean, Median, Mode & Range

Which area had more bad air days, NY or LA?		60
Which country emitted more CO ₂ per person, UK or Canada?		61
What makes land sink?		62

Measurement

Length

How much will sea level rise around the world?		63
Cross River Gorillas – How tall are they?		64
How much has sea level risen in the United States?		65
Critically endangered Amur Leopards – How far can they leap?		66

Mass

Vulnerable species Giant Pandas – How much do they eat?		67
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Volume

How much gasoline and money can a hybrid car save?		68
How much gasoline do you need to travel from Chicago to Detroit?		69
How much water do you use when brushing your teeth?		70

Speed

Polar bears – How fast can they swim?		71
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Area

How much area of your roof is needed for solar panels?		72
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READINGS : DID YOU KNOW?

The United States uses 400 gallons of water every day for the electricity you use	2
Texas used the most wind energy in the U.S.	6
When warmed, the Earth could lose $\frac{1}{3}$ of animal and plant species	8
It takes 14 times more water to produce a beefsteak than an apple	12
Electricity in Hawaii is 3 times more expensive than that in Washington	24
Your house may lose more than 10,000 gallons of water a year through leaks	52
The United States is home to the 2 nd largest wind & solar power in the world	54