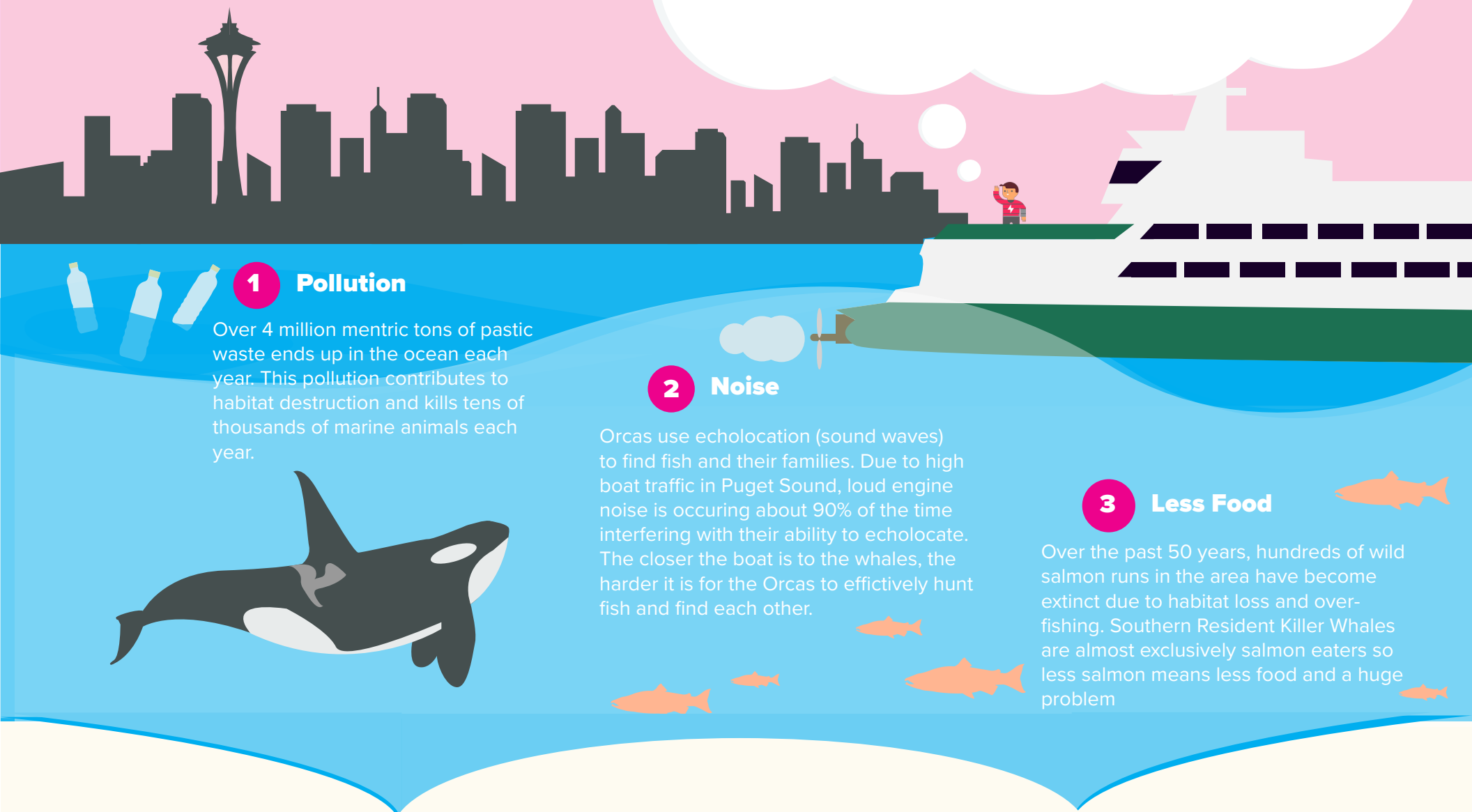
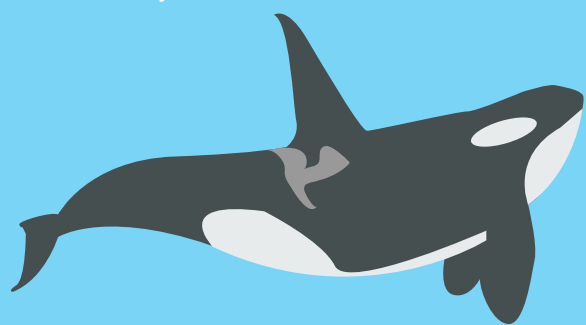


# Why are there fewer orcas in the Puget Sound?



## 1 Pollution

Over 4 million metric tons of plastic waste ends up in the ocean each year. This pollution contributes to habitat destruction and kills tens of thousands of marine animals each year.



## 2 Noise

Orcas use echolocation (sound waves) to find fish and their families. Due to high boat traffic in Puget Sound, loud engine noise is occurring about 90% of the time interfering with their ability to echolocate. The closer the boat is to the whales, the harder it is for the Orcas to effectively hunt fish and find each other.

## 3 Less Food

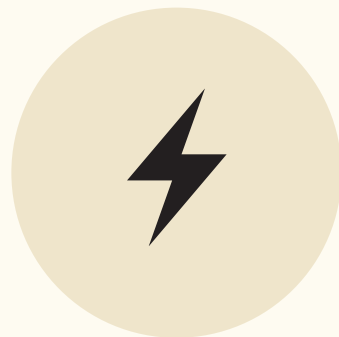
Over the past 50 years, hundreds of wild salmon runs in the area have become extinct due to habitat loss and over-fishing. Southern Resident Killer Whales are almost exclusively salmon eaters so less salmon means less food and a huge problem.

**Excessive Water and Power usage also negatively affect orca habitat**

With Killer Whale Tales' Kids Making a Difference Now! conservation activities,

**3,851 students from 47 schools**

participated in our program and made the following differences:



Reduced running water time while brushing their teeth by **9** seconds per participating student



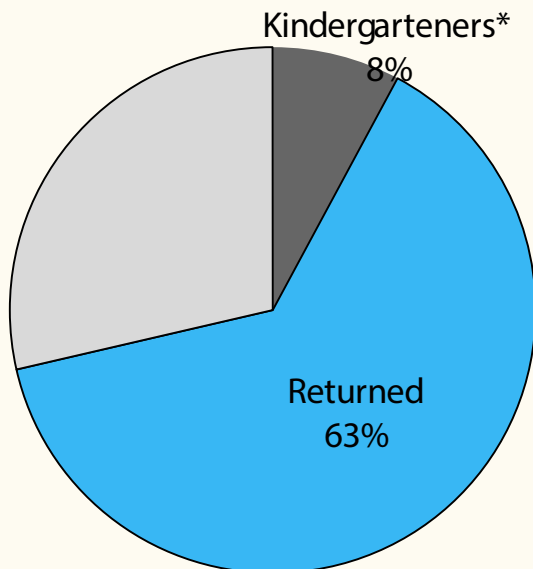
Reduced bath water levels by **2.3** inches per participating student



Reduced running water time while taking a shower by **4.1** minutes per participating student

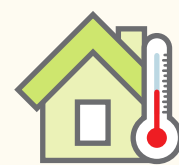
Conserving an estimated **36,211 gallons** of water

\*Participating students are those that reduced, increased, or made no change in their household consumption with each conservation activity (see next page)



2,446 of 3,548 students >Kindergarten returned their Kids Making a Difference Now! Worksheets

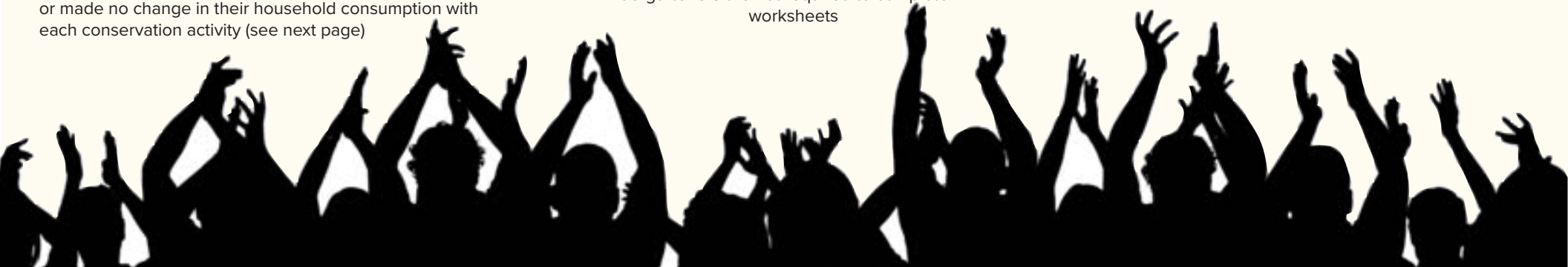
\*Kindergarteners are not required to complete KMAD worksheets



Lowered their household thermostats by **4** degrees Fahrenheit per participating student

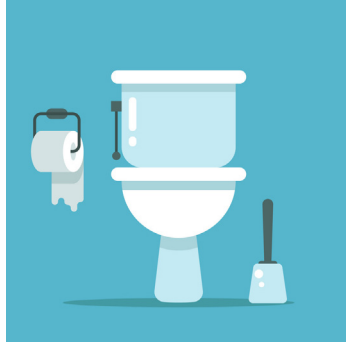


Unplugged and turned off **17,555** unused devices and lights



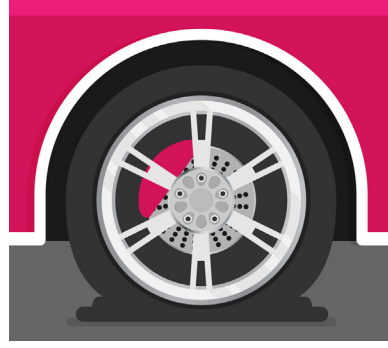
**Great Job!**

Estimates vary, but according to the USGS each person in the US uses about **80-100 gallons of water per day.**



The largest use of household water is the toilet (flushing 9-19 gallons/person/day) followed by showers and baths. Other uses include washing clothes and dishes, brushing teeth, and drinking water.

The U.S. Government Accountability Office estimates that **U.S. drivers waste 1.2 Billion gallons of gasoline per year because of under-inflated tires.**



This increases harmful greenhouse gases in the air and pollutes our waters.

According to the EPA, **Americans generated about 254 million tons of trash in 2013** ( about 4.4lbs per person per day).

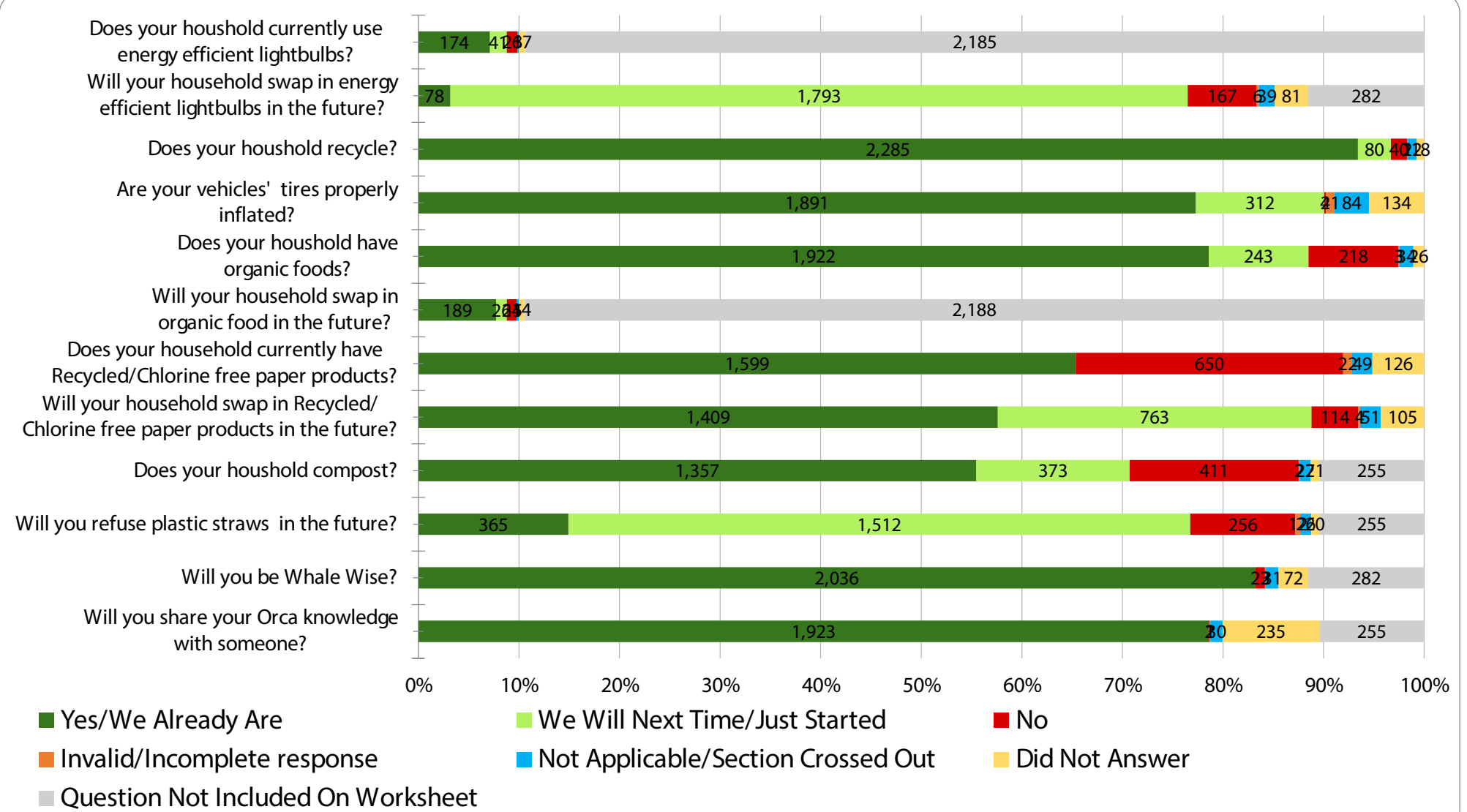
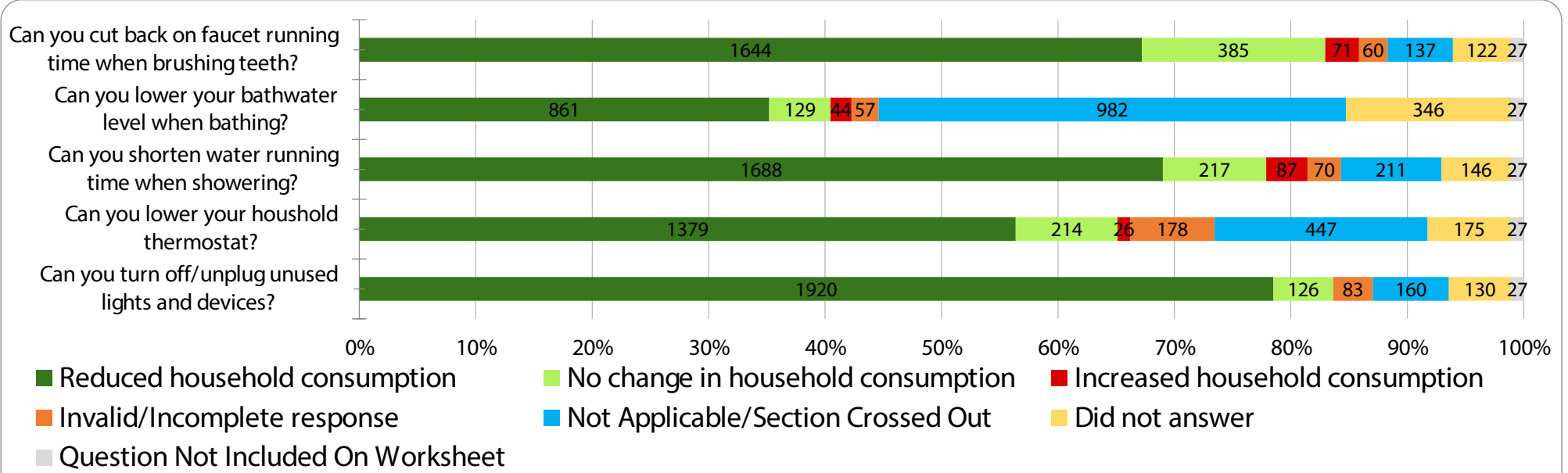


Through recycling and composting 87 million tons (34.3%) of this material was kept out of landfills, preventing the release of ~186 million metric tons of carbon dioxide into the air.

With Killer Whale Tales' Kids Making a Difference Now! conservation activities,

**2,446 students**

reported the following:



\* Current use of energy efficient lightbulbs and commitment to buying organic foods questions were not included in the newer version of the KMAD worksheets. Conversely future use of energy efficient lightbulbs, composting, plastic straw usage, being Whale Wise, and sharing your orca knowledge were not included in previous versions of the worksheet.



**Great Job!**