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Topic: Earth Literacy Concepts in Math Courses

I will make and use word problems that will make my students aware of our environment and make them think how to preserve it. The following is an example of a list of a few word problems:

1. A community has 25,000 houses, each off which has (on the average) two toilets. Each is flushed (on the average) three times daily. If the old toilet tanks are replaced by new ones, which hold one gallon of water less, how much water can be saved in one year?
2. What percent less pollution will be created if 20,000 individuals drive 45 minutes less each day, given the relevant data?
3. How many gallons of gas can be saved if 20,000 cars are driven 45 minutes less each day, given that each hour of driving emits an average 2.25 gallons of gas?
4. Given the relevant (the present world population, rate of population growth per year), what will be the population in five years? Fifteen years? Twenty years?
5. How will the answer from question 4 be affected if the rate of population growth were reduced by 5%?
6. If it takes x square feet of land to grow food and y square feet of land to house every individual on the earth, how much more land will be taken from nature in five years, considering the present growth of the population? In ten years? In twenty years?