

THERE HAS NOT BEEN MUCH RAIN IN CALIFORNIA OVER THE LAST FEW YEARS.

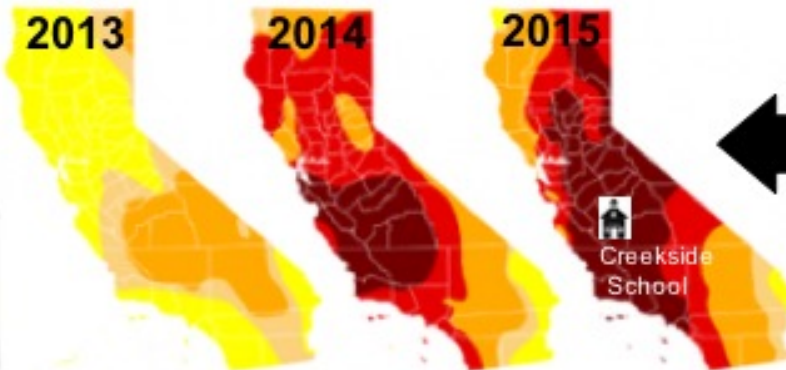


THIS DROUGHT IS HARMFUL TO MANY SPECIES OF PLANTS AND ANIMALS.



Drought in California in years 2013-2015

Abnormally Dry Moderate Drought Severe Drought Extreme Drought Exceptional Drought



THE DRIEST PARTS OF CALIFORNIA ARE SHOWN IN RED ON THIS MAP. THE MAPS ALSO SHOW HOW BAD THE DROUGHT BECAME OVER JUST 3 YEARS.

CREAKSIDE SCHOOL IS LOCATED IN THE RED PART OF THE MAP. THE SCHOOL PRINCIPAL HAS BEEN PLANNING TO PUT NEW GRASS IN THE PLAYGROUND, BUT:



- 1. THE DROUGHT MEANS THAT SHE CANNOT USE MUCH WATER.**
- 2. SHE DOES NOT HAVE MUCH MONEY TO SPEND ON THE GRASS**

PLEASE HELP ME FIGURE OUT WHICH KIND OF GRASS TO BUY!

THE PRINCIPAL IS TRYING TO CHOOSE BETWEEN FOUR DIFFERENT TYPES OF GRASS TO USE ON THE PLAYGROUND. SHE STUDIES DATA TO HELP HER DECIDE WHICH ONE IS BEST FOR THE PLAYGROUND.

1. DATA THAT COMPARES HOW MUCH WATER EACH GRASS NEEDS:



2. DATA THAT COMPARES HOW MUCH EACH GRASS COSTS



Question 1. SHE USES THE DATA TO DESCRIBE THE REASONS EACH GRASS COULD BE A GOOD CHOICE (ADVANTAGES) AND THE REASONS IT COULD BE A BAD CHOICE (DISADVANTAGES). USE THE DATA TO HELP HER COMPLETE THE TABLE.

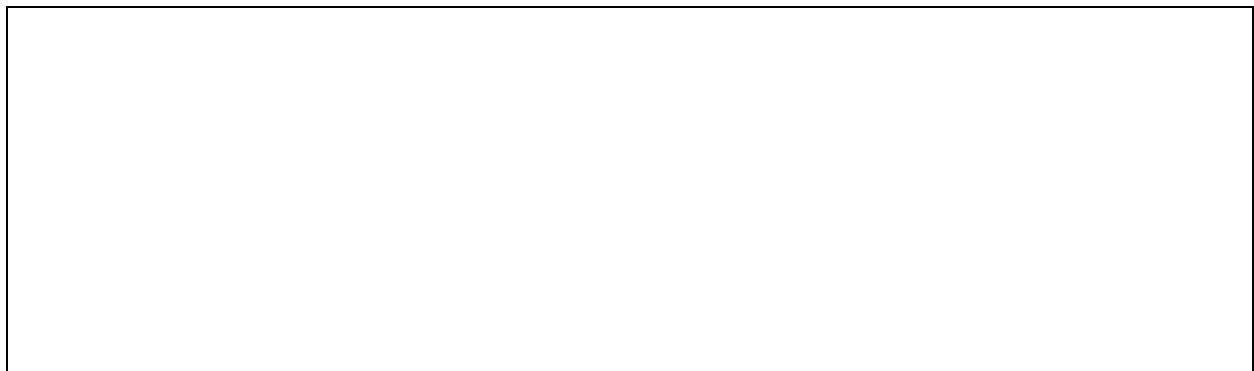
Grass	Advantages	Disadvantages
AUGUSTINE		
BERMUDA	None	Needs a lot of water AND costs a lot of money
CENTIPEDE		
ARTIFICIAL		

Question 2:

ARTIFICIAL GRASS IS NOT REALLY GRASS. IT IS NOT A PLANT AT ALL—IT'S MADE OF PLASTIC!

WHAT COULD HAPPEN TO OTHER LIVING THINGS IF THE SCHOOL TAKES REAL GRASS (PLANTS) OUT OF THE PLAYGROUND AND PUTS IN ARTIFICIAL GRASS (PLASTIC)?

DESCRIBE ONE WAY THAT CHANGING FROM REAL GRASS TO ARTIFICIAL GRASS COULD AFFECT OTHER PLANTS OR ANIMALS IN THE PLAYGROUND. EXPLAIN YOUR ANSWER.



Question 3

THE PRINCIPAL SAYS THAT IT IS IMPORTANT THAT THE PLANTS AND ANIMALS AROUND THE SCHOOL ARE NOT AFFECTED BY HAVING A NEW TYPE OF GRASS IN THE PLAYGROUND.

WHICH GRASS DO YOU THINK WOULD BE THE BEST FOR THE PRINCIPAL TO BUY? USE **ALL** OF HER CONSTRAINTS (BELOW) TO MAKE YOUR DECISION.

The principal's constraints:

1. The drought means she cannot use a lot of water.
2. She does not have a lot of money to spend on the grass.
3. She does not want other plants and animals to be harmed by the new grass.

Circle one: AUGUSTINE BERMUDA CENTIPEDE ARTIFICIAL

WHY IS YOUR CHOICE THE BEST GRASS TO BUY? DESCRIBE HOW THE GRASS YOU CHOSE MEETS EACH OF THE PRINCIPAL'S CONSTRAINTS LISTED ABOVE: