



MISSION 1: THE ZOO IS RUNNING OUT OF OXYGEN!

Your bio-dome is down to its last tank of oxygen and CO₂ filters have broken down through overuse. Emergency supplies won't arrive for another 100 days... but can the current number of creatures survive until then?

Calculate what will happen to the O₂ and CO₂ levels over the next 100 days with the current population level. Then, try out different population numbers and see their effect on the O₂ and CO₂ levels.

Your mission? To calculate the **highest number** of creatures you can keep in the bio-dome in order for them to all survive. You'll need to be able to explain your reasons in your report to the managers.

