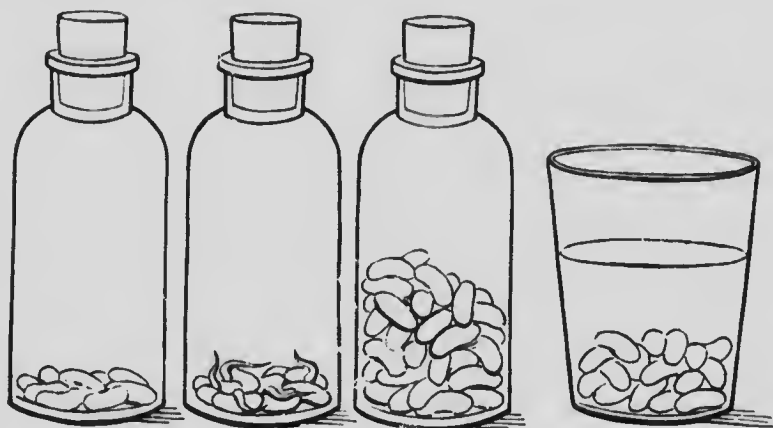


" Soak two lots of seeds twenty-four hours and two hours respectively ; dry with cloth ; put in two bottles ; cork tight ; set aside and watch from time to time. It will be seen that the seeds soaked twenty-four hours have sprouted while those soaked two hours did not. Why ? Because the first ones received sufficient moisture while the second ones did not.



To Show that Seeds need Moisture and Air.

" Plant seeds in two tumblers ; give one high temperature and the other low ; watch from time to time and keep soil moist. It will be seen that the seeds given high temperature sprouted while those given low did not. Why ? Because the first got sufficient heat while the others did not.

" Soak seeds twenty-four hours, dry with cloths ; put a few in one bottle, and fill the other about half full, cork tight ; and watch from time to time. It will be seen that the few in one bottle sprouted while those in the bottle half full did not. Why ? (introduce lighted match into each bottle ; match goes out). Why did the match go out ? Because the fresh air has been replaced with foul air, or the oxygen has been replaced with carbon di-oxide by the seeds. The bottle with the few seeds contained enough fresh air to sprout them while the other with many seeds did not. In the same

