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| Cells  Organisms are ALL made of cells!  Microscopes  TEM  SEM  The Cell Theory | 24   * How do all those \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ come together to form a living organism?   + By forming a \_\_\_\_\_! * A cell is the \_\_\_\_\_\_\_\_ \_\_\_\_\_ of an organism that is still considered living.   + \_\_\_\_\_\_ unit of \_\_\_\_\_! * Some organisms, like \_\_\_\_\_\_\_\_\_\_, consist of only \_\_\_\_ cell. * Others, like \_\_\_\_\_\_\_, have of \_\_\_\_\_\_\_\_\_\_ of specialized cells working together. * Most cells are so tiny that you \_\_\_\_\_\_ \_\_\_\_\_ them without the help of a microscope. * We use \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ (we can’t see some small structures with these)   + **\_\_\_\_\_\_ \_\_\_\_\_\_\_\_** created a primitive light microscope in 1665 and observed cells for the very first time. * 1950- more powerful microscopes, biology grew \_\_\_\_\_\_! * \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ (TEM) pass an electron beam through a very thin section of an organism and allow us to study the \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ of cells. * Scanning electron microscopes (SEM) pass a beam of electrons across the surface of something to show the details of the shapes of surfaces giving a 3D image * \_\_\_\_ organisms are composed of cells. * Cells are \_\_\_\_\_\_and the basic living units of \_\_\_\_\_\_\_\_\_\_\_ in all organisms. * All \_\_\_\_\_\_ come from \_\_\_\_\_\_ \_\_ |