








Name:







Date:

## Parts of an Animal Cell Labeling and Coloring Activity

Organelle Name	Organelle Function
<b>1. Cell Membrane</b> 	A flexible covering that <b>protects</b> the inside of the cell from the <b>outside environment</b> .
<b>2. Nucleus</b> 	Part of the cell that <b>directs</b> cell activities and contains <b>genetic</b> information stored in <b>DNA</b> .
<b>3. Nucleolus</b> 	An area inside the <b>nucleus</b> of a cell that is made up of RNA and proteins. It is where <b>ribosomes</b> are made.
<b>4. Nuclear Membrane</b> 	A <b>thin wall</b> around the <b>nucleus</b> that <b>protects</b> the DNA and <b>controls</b> what enters and leaves.
<b>5. Mitochondria</b> 	Small parts inside cells that use <b>oxygen</b> and <b>food</b> to make <b>ATP</b> , which is the <b>energy</b> the cell needs to work.
<b>6. Cytoplasm</b> 	Cytoplasm is the <b>jelly</b> -like substance inside a cell that <b>holds</b> all the cell's parts in place and is where many of the cell's <b>chemical</b> processes take place.
<b>7. Centrosome</b> 	The centrosome is like the cell's <b>organizer</b> . It helps arrange the cell's skeleton (tiny tubes called microtubules) and makes sure everything lines up correctly when the cell is getting ready to <b>divide</b> .

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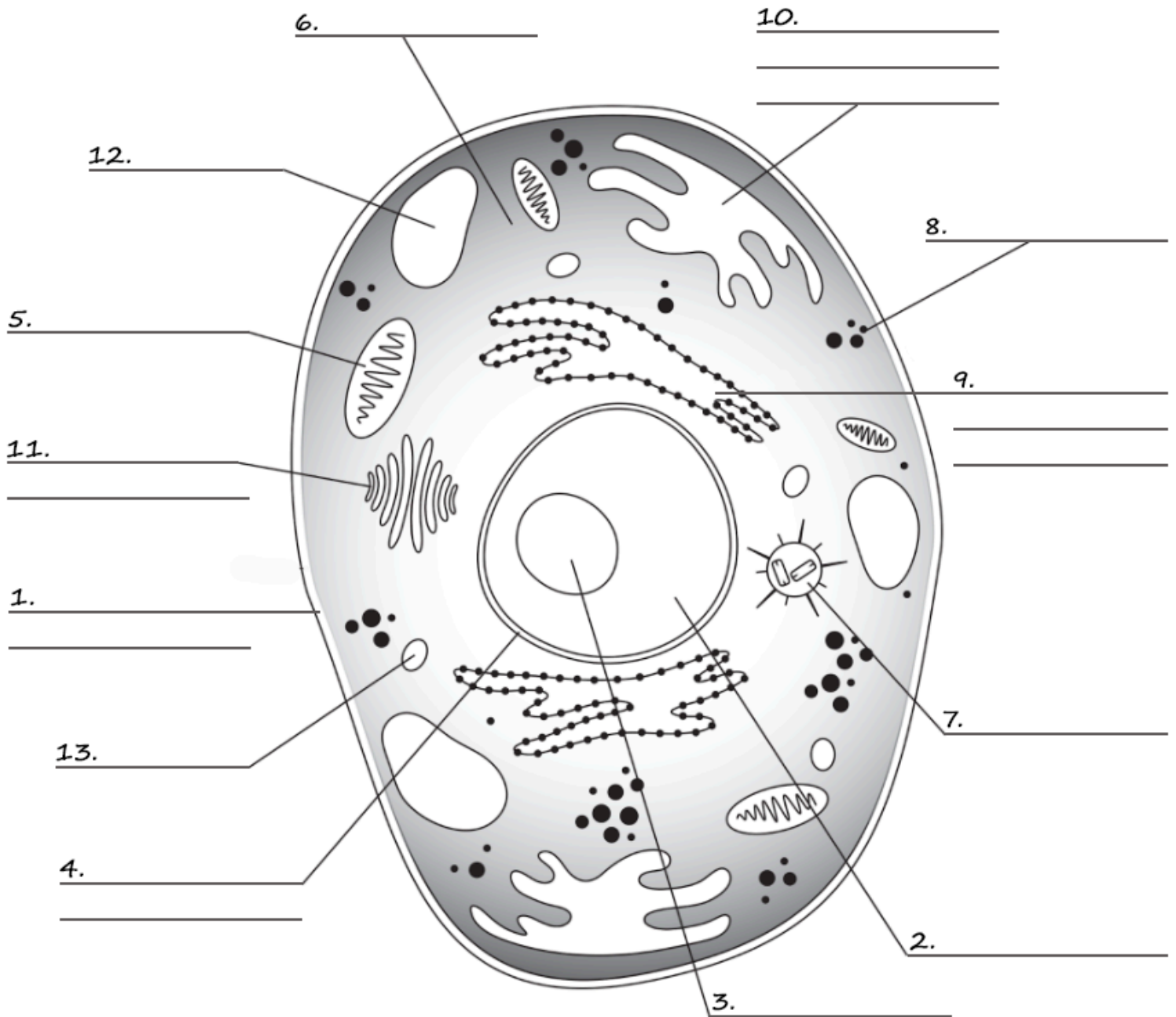
Organelle Name	Organelle Function
<p>8. Ribosome</p> 	<p>Ribosomes make <b>proteins</b>. They follow instructions to assemble small building blocks called <b>amino acids</b>, creating proteins that do important jobs in the cell.</p>
<p>9. Rough Endoplasmic Reticulum (Rough ER)</p> 	<p>A network of membranes inside the cell that's covered with <b>ribosomes</b>. Because of these ribosomes, the rough ER looks bumpy or "<b>rough</b>." Its main job is to help package <b>proteins</b> so they can be sent to where they're needed in the cell.</p>
<p>10. Smooth Endoplasmic Reticulum (Smooth ER)</p> 	<p>A network of tubes inside the cell that looks smooth because it <b>doesn't have ribosomes</b> on its surface. It helps the cell by making <b>fats (lipids)</b>, storing important chemicals, and <b>cleaning up</b> harmful substances.</p>
<p>11. Golgi Apparatus</p> 	<p>Modifies, sorts, and packages <b>proteins</b> and <b>lipids</b> for <b>transport</b> within or out of the cell.</p>
<p>12. Vacuole</p> 	<p>Membrane-bound sacs within cells that <b>store</b> and <b>transport</b> substances like <b>water</b>, <b>nutrients</b>, and <b>waste</b>.</p>
<p>13. Lysosome</p> 	<p>Contains <b>enzymes</b> to <b>break down</b> and <b>recycle</b> waste, damaged parts of the cell, and foreign substances.</p>

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## Parts of an Animal Cell

Directions: Write the names of each animal cell organelle to match the numbers on the previous pages.





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