
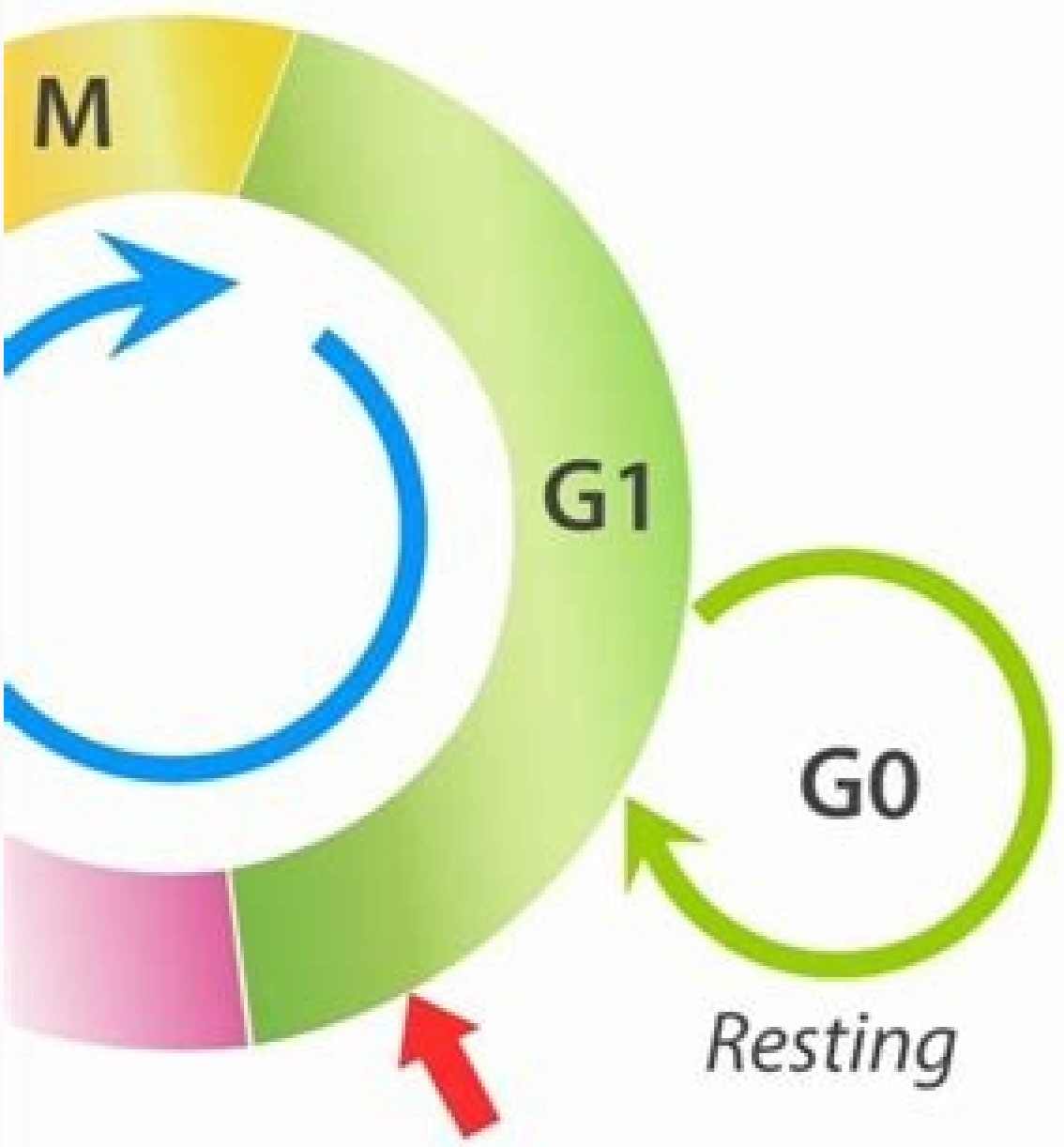


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# The Cell Cycle and the Checkpoints

point



checkpoint 1. Cell Growth Checkpoint

## 1. Cell Growth Checkpoint

- Occurs toward the end of G<sub>1</sub>
- Checks whether the cell is made the proper proteins for
- If not, the cell goes through G<sub>0</sub> until it is ready to divide.

## 2. DNA Synthesis Checkpoint

- Occurs during the S phase
- Checks whether DNA has been replicated
- If so, the cell continues on to G<sub>2</sub>

## 3. Mitosis Checkpoint

- Occurs during the mitosis phase
- Checks whether mitosis is complete
- If so, the cell divides, and the cycle begins again

### 7.4 CELLULAR TRANSPORT --POGIL [PART 1]

LAB STATION COLOR \_\_\_\_\_

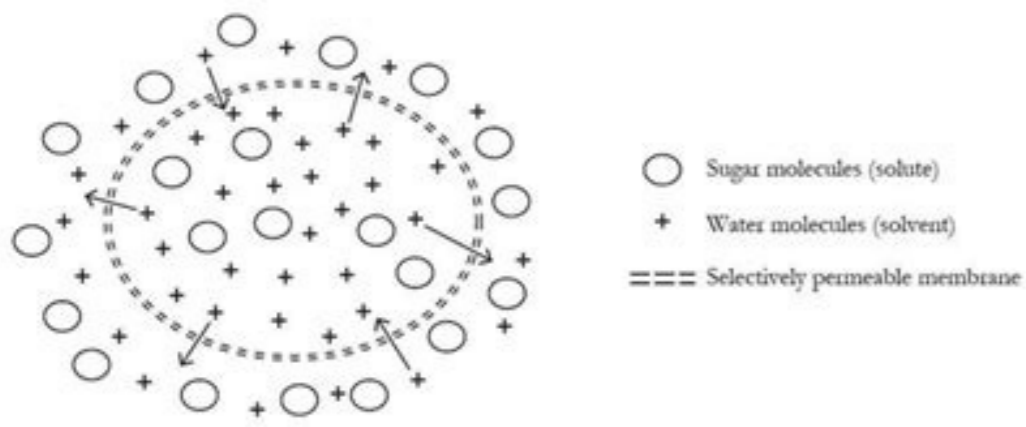
TEAM MEMBERS: \_\_\_\_\_

OBJECTIVE: How do water molecules move in and out of cells?

#### Why?

Water accounts for over 70% of the human body. If water levels are not regulated and maintained in an organism the consequences can be disastrous. Cells and tissues may swell, blood cells burst, or the brain may expand so much it pushes on the skull, leading to brain damage and death. So what exactly is the process that allows organisms to regulate and maintain their water content?

#### Model 1 – Movement of Water In and Out of Cells



1-A solution consists of solute and solvent mixed together. IDENTIFY the solute and solvent and their symbols in Model 1.

solute: \_\_\_\_\_ / \_\_\_\_\_ solvent: \_\_\_\_\_ / \_\_\_\_\_

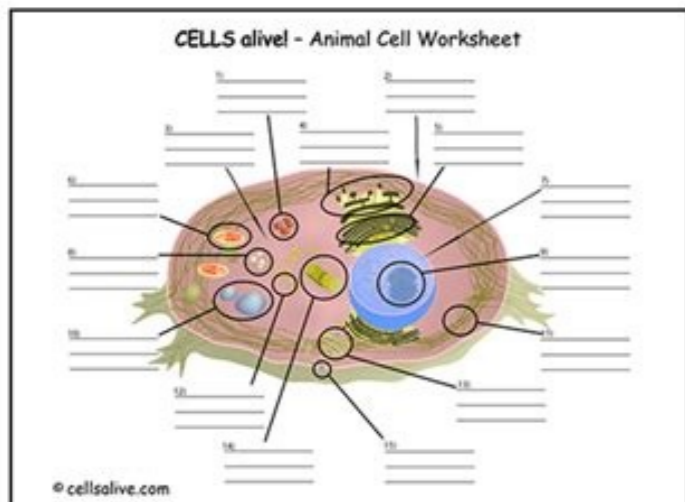
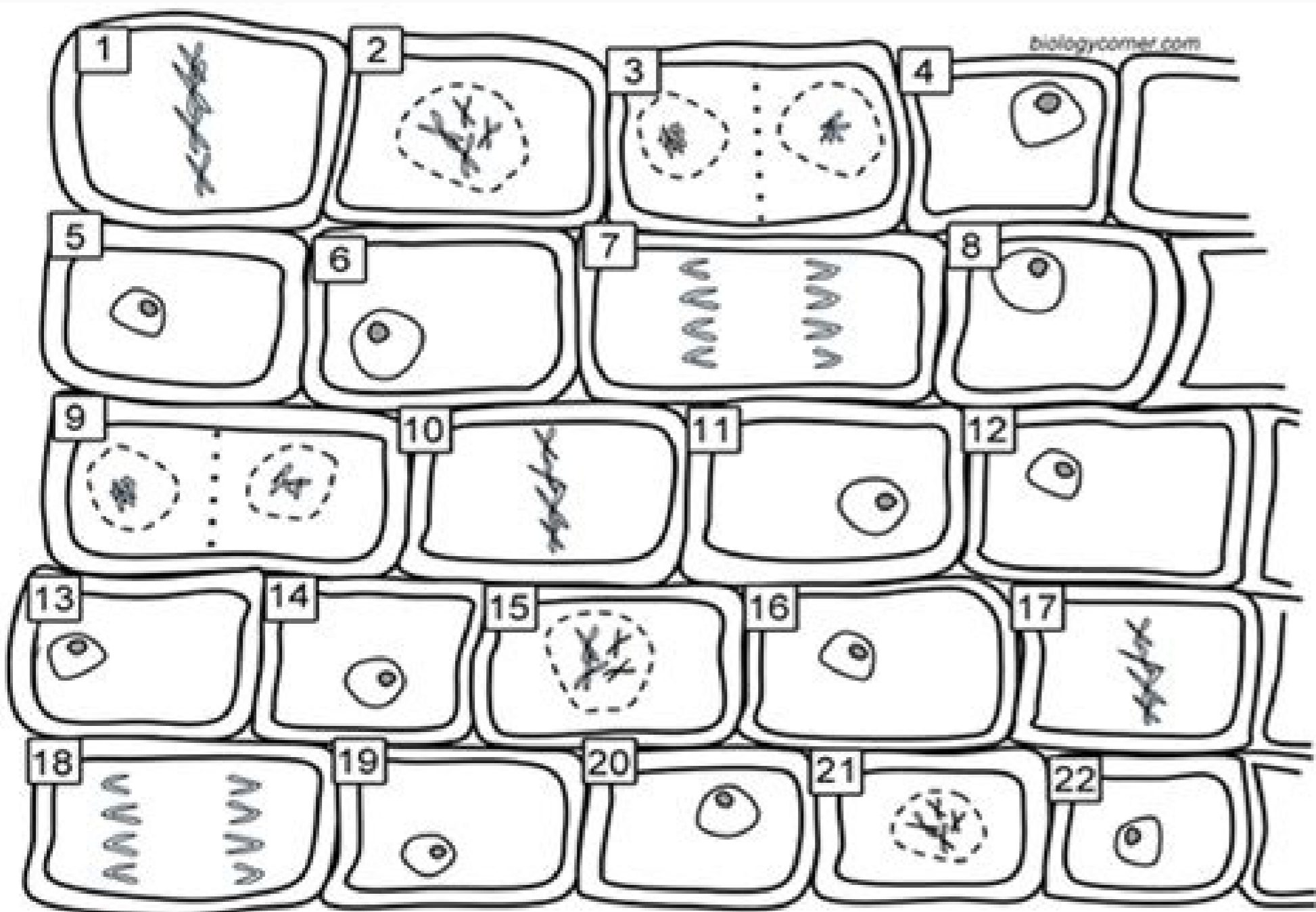
2-CONSIDER the size of the sugar molecule and water molecule in Model 1. Which molecules are able to move through the cell membrane?

3-COUNT the molecules in model 1 and complete the table below.

	Inside the Cell	Outside the Cell
Number of sugar molecules		
Number of water molecules		
Ratio of water to sugar		

4-DETERMINE which solutions are more concentrated in Model 1—inside or outside the cell.

EXPLAIN in terms of ratio of solute to solvent particles.



Cells alive worksheet answer key part a. Cells alive worksheet answer key pdf. Cells alive worksheet answer key meiosis. Cells alive worksheet answer key mitosis. Cells alive worksheet answer key how big is a. Cells alive worksheet answer key quizlet. Cells alive worksheet answer key part c. Cells alive worksheet answer key biology.

7.2. Part A: www.cellsalive.com, scroll down and click "How big is it..." "How great is it." On the home page, go down and click "How big is it." 14. What does the cytoskeleton do? 9. What units would you use to measure a red blood cell (circle)? What makes plant cells green? Sketch each of the following: Mitochondria: Lysosome: Golgi Device: Endoplasmic Reticulum Rough & Smooth: Part D: "Plant-Interactive Cell Models" in the home page, www.cellsalive.com, scroll down and click on "plant/animal" under the image "Interactive Cell Models." Most of the diagrams on cellsalive.com are interactive, requiring students to click and read the text. The spreadsheet is filled by reading and viewing the images. The reading level is quite basic, and younger biology students should not have problems with the text. Students also sketch organelles such as mitochondria and the endoplasmic reticulum while visualizing the interactive cells of plants and animals. What is the function of mitochondria? What does Golgi do? Once there, click on the red button "Start animation." Here you will look at objects found on the head of a pin. What is the function of the lysosome? Where is the nucleolus found? Once there, click on the red button "Start animation" (nanometers micrometers millimeters) Part C: "Interactive-Animal Cell Models" on the home page, www.cellsalive.com, scroll down and click on "Interactive Cell Models" below the picture "Interactive Cell Models" What other type of cell, beyond the plant, has cell wall? What units would you use to measure a virus (circle one)? 12. 10. 3.6. 11. This worksheet can be used as reinforcement or revision after students have learned the parts of the cell. I've also used it with students who may have missed a lab or other classroom activities. 2. Don't check if you make sure that the interactive works on your computer network, some of the flash flash may not be compatible with all systems. What does the nucleolus do? Coli or eritocitos 4. Grade: A 7-10 Time Required: A 20-30 minutes Download PDF Google Doc Key (TPT) Name: \_\_\_\_\_ Date: \_\_\_\_\_

tion. Sullivan Thank you for your participation! The answers to the questions are in the reading. Once there, click thestart animationĀē redĀ Ā Select ĀĀ ©lula ĀplantĀ ĀĀ about those parts. What is the difference between the Smooth and Rough Endoplasmic Reticulum? Name 3 parts found in a plant cell that are also found in an animal cell. Sketch the following: About Awards Privacy Policy Permissions Stock Footage Contact ĀĀ 1994-2022 James A. A.

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