



# Assessment Rubric



## Cells



Student's Name: \_\_\_\_\_ Assignment: \_\_\_\_\_ Level: \_\_\_\_\_

	Level 1	Level 2	Level 3	Level 4
<b>Understanding Concepts</b>	Demonstrates a limited understanding of concepts. Requires teacher intervention.	Demonstrates a basic understanding of concepts. Requires little teacher intervention.	Demonstrates a good understanding of concepts. Requires no teacher intervention.	Demonstrates a thorough understanding of concepts. Requires no teacher intervention.
<b>Analysis and Application of Key Concepts</b>	Limited application and interpretation in activity responses.	Basic application and interpretation in activity responses.	Good application and interpretation in activity responses.	Strong application and interpretation in activity responses.
<b>Creativity and Imagination</b>	Limited creativity and imagination applied in projects and activities.	Some creativity and imagination applied in projects and activities.	Satisfactory level of creativity and imagination applied in projects and activities.	Beyond expected creativity and imagination applied in projects & activities.
<b>Application of Own Interests</b>	Limited application of own interests in independent or group environment.	Basic application of own interests in independent or group environment.	Good application of own interests in independent or group environment.	Strong application of own interests in independent or group environment.

SAMPLE

**STRENGTHS:**

**WEAKNESSES:**

**NEXT STEPS:**



# Design a DNA Instruction Book

**BUILD A PERSON!**

**DNA is a secret code found in the middle of the cell, in the NUCLEUS. It is a very long list of instructions that gives each cell in your body its own shape and function. Your DNA made you the person you are!**

Now it is your turn to pretend you are the DNA. You will design your own person by creating your own list of instructions. Use your imagination for this activity!

## DESIGN AN INSTRUCTION BOOKLET:

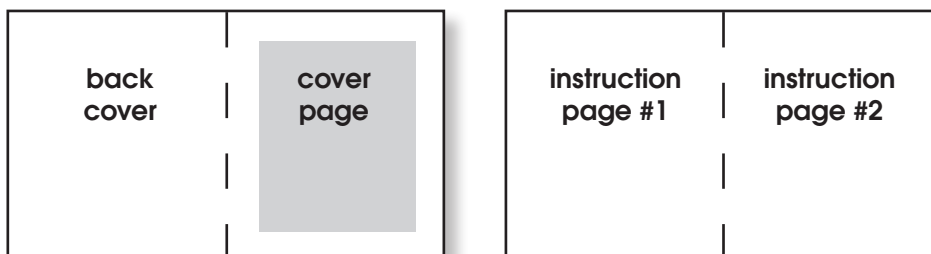
Think about something you recently bought in a store that needs instructions to assemble it. It likely came with a small fold-out book that shows (with big numbers!) how to assemble the object, giving detailed instructions for each step. Your teacher will bring in a few examples of such books in case you have never seen one before. Use these as a guideline for your own booklet design.

## YOUR BOOK SHOULD INCLUDE:

- A cover page (just like a title page - use diagrams and words to introduce your book)
- Numbers to show each step
- Creative instructions on how to build a person

Use **pictures** as well as words! The instructions should be easy to follow and fun to look at!

**Use the following page format for your instruction book:**





**Part C**

1. Building block of life; microscope

2. Carries genetic information; in nucleus

3. Possible answers: nucleus – controls everything that happens in the cell membrane  
 – holds all parts of cell in place  
 cytoplasm – where all the cell's activities take place

4. Yes; meiosis – sexual reproduction (produces sex cells)  
 mitosis – asexual reproduction (no sex cells produced)

5. cell wall – rigid outer covering,  
 vacuoles – large sacs that store proteins, waste, etc.,  
 plastids – make and store food

**Part A**

1. True

2. False

3. False

4. True

5. True

6. False

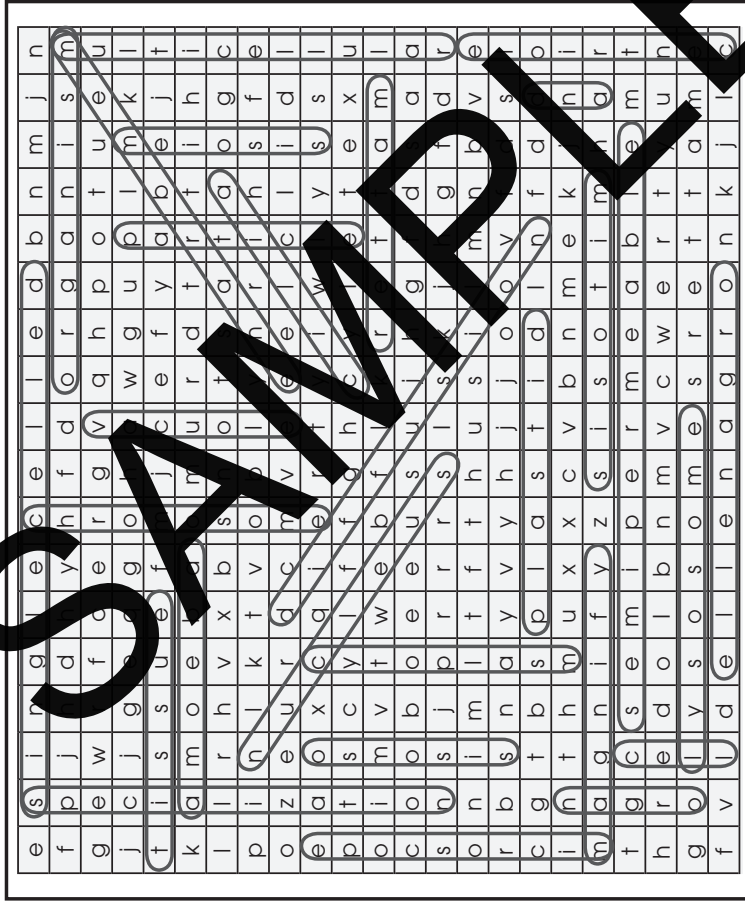
**Part B**

**A** cell membrane

**B** nucleus

**C** cytoplasm

# Word Search Answers



**Across:**

- 1. osmosis
- 3. meiosis
- 6. nucleus
- 11. cell membrane
- 12. cell wall
- 15. chromosome

**Down:**

- 1. organ
- 2. organelle
- 3. matter
- 4. organism
- 5. vacuoles
- 7. cytoplasm
- 8. single celled
- 9. plastid
- 10. semi permeable
- 11. cilia
- 13. mitosis

# Frog Embryo Cells

