

# BIOLOGY CONCEPTS — Distinguishing Between Life and Nonlife

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## WORD LIST

Please look up these words and write the definitions. Use Dictionaries, Encyclopedias, or the Glossary from this guide.

Biology \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Excretion \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Exobiologist \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Growth \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Life \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Movement \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Nutrition \_\_\_\_\_  
\_\_\_\_\_

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Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_



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## VIDEO ACTIVITY SHEET 1

EXERCISE A Classify each of the following as living or nonliving		EXERCISE B (Turn off player) Tell why you think it is living or nonliving
OBJECT	LIVING OR NONLIVING	BECAUSE
Sunflower 		
Fire 		
Bees 		
Water/Ice 		
Rocks 		
Buffalo 		
Robot 		

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**VIDEO ACTIVITY SHEET 2**

CHARACTERISTICS OF LIFE

Nutrition	Respiration
Movement (Transport)	Sensitivity (Regulation)
Excretion	Growth
Synthesis	Reproduction

EXERCISE C

I. I observed the following life activities during the chemical demonstration:

- |    |    |
|----|----|
| 1. | 5. |
| 2. | 6. |
| 3. | 7. |
| 4. | 8. |

II. The amoeba displayed the following life activities.

- |    |    |
|----|----|
| 1. | 5. |
| 2. | 6. |
| 3. | 7. |
| 4. | 8. |

EXERCISE D

I would ask the scientist who claimed to have created life the following questions:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

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## **VIDEO ACTIVITY SHEET 3**

### EXERCISE E, PART I

#### Testing For Life On Mars

List two life characteristics you would use in testing for life on Mars.

1.

2.

### EXERCISE E, PART II

1. Would negative results to a test for life on Mars prove conclusively that life does not exist on Mars? Circle **Yes** or **No** Below.

YES

NO

2. If you still believe despite negative results, that life might exist on Mars, give your reasons why:

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## **PROGRAM 1 EXAMINATION**

1. List those activities that are common to almost all living things.
  
2. Explain and define each of the activities that are common to most living things.
  
3. Describe some life characteristics that the following nonliving things possess.
  - A. Airplane
  
  - B. Fire
  
  - C. Car
  
4. How can you prove that these things are nonliving?
  
5. If you believed something that appeared to be nonliving was actually living, how could you prove or disprove your belief?
  
6. Why is reproduction not considered vital to the organism? Why is it important?
  
7. In the program you viewed, you saw that the 'Slime Mold' could be shown to be living by changing conditions. . . Design an experiment to prove the lima beans found on a grocery shelf are actually alive.

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