

# ACTIVITY BOOK

## Unit 2: Development of Autonomous Robots

### Lesson 1: Based on Evolution of Autonomous Robots reading

**5. Fill in the Blanks. Read each statement and fill in the blanks with the appropriate word or phrase from the text. Refer back to the text if necessary.**

1. In the past 50 years, the market for \_\_\_\_\_ has evolved significantly.
2. The term “\_\_\_\_\_” refers to collaborative robots that work alongside humans.
3. The first industrial robot, named \_\_\_\_\_, was developed by George Devol.
4. Autonomous robots in the \_\_\_\_\_ could perform basic tasks like heavy lifting.
5. By the \_\_\_\_\_, robots began to be used for more precise tasks in manufacturing.
6. In the \_\_\_\_\_, engineers installed precision force sensors and lasers on robots.
7. The development of true autonomous mobile robots saw a resurgence in the \_\_\_\_\_.
8. Today, autonomous technology is used in sectors like agriculture, health, logistics, and \_\_\_\_\_ maintenance.

**6. Based on the previous reading, go to the game and answer the questions:**

- URL for students: <https://quizizz.com/join> (The code will be given by the teacher to the students)

**7. Fill in the missing information in the chart below. Some sections have been completed to guide you. Focus on identifying key robotic developments and their impacts during the various eras.**

Era	Robot Developments	Industry/Societal Impact
1940s- 1950s	Creation of Elmer and Elsie by W. Grey Walter	
1960s		Enhanced productivity and efficiency in manufacturing
Late 1960s- 1970s		Automation in manufacturing for detailed tasks

1980s	Introduction of AGVs; advanced sensors and vision systems.	Improved logistics and tracking capabilities in industries
1990s- 2000s		Birth of truly autonomous robots; increased adaptability and awareness
2000s- Present		Improvement in warehouse operations; collaboration with humans