NAME: _____DATE: _____ 4th Grade: A   B   C

TEACHER: EDGAR PITTY

INSTRUCTIONS: THIS IS AN INDIVIDUAL SUMMATIVE ACTIVITY. THIS SHEET MUST BE FILLED OUT IN PENCIL. FOLLOW THE INSTRUCTIONS GIVEN BY THE TEACHER, STAY SEATED AND FOCUSED ON YOUR ACTIVITY AT ALL TIMES DURING THIS ASSIGNMENT.			
Name and date: 1pt		Follow Instructions: 1pt.	
Order: 1pt		Correct use of tools: 1pts.	
CONTENT: 36pts		TOTAL: 40pts	

PART I: TRUE OR FALSE. PUT A T IF THE STATEMENT IS TRUE, PUT AN F IF THE STATEMENT IS NOT TRUE. (DOBLE ANSWERS OR MARK UPS WILL NOT BE CONSIDERED AS A RIGHT ANSWER). 10PTS. 1pt each.

1. Robotics is the study, design, and programming of cars and bikes. _____ .

2. Robots can help us complete any task we program them to: _____.

3. A Robot is a machine capable of thinking like a human being by itself: _____.

4. Only if you program it, a robot will perform a task by itself: _____.

5. Robots are only used in factories: _____.

6. Sensors help robots to see or feel things: _____.

7. Controller, sensor, and actuator are the essential parts of our robotics' kit: _____.

8. The purpose of robotics is only to entertain us: _____.

9. A robot has the natural ability to disobey human orders: _____.

10. The equivalent to our brain in a robot is a color sensor: _____.

PART II: CHOOSE THE BEST OPTION. CIRCLE THE CORRECT LETTER AMONG THE THREE OPTIONS. DOBLE ANSWERS OR CROSS OUTS WILL BE CONSIDERED INCORRECT. 10pts 1pt each.

1. What is a robot?

    A) A type of animal

    B) A machine that can follow instructions

    C) A kind of plant

2. Which part tells the robot what to do?

    A) Its wheels

    B) Its battery

C) Its program

3. Which of these is a robot?

   A) A pencil

   B) A vacuum cleaner robot

   C) A backpack

4. Why do robots need sensors?

   A) To sleep

   B) To see or feel things

   C) To eat

5. Which of these things a robot can NOT do?

   A) Think like a human

   B) Follow commands

   C) Move its parts

6. Where are robots used?

   A) Only in space

   B) Only in homes

   C) In many places like hospitals, homes, and factories

7. What gives power to a robot?

   A) Water

   B) Battery or electricity

   C) Food

8. What does a robot need to move?

   A) Music

   B) Programming and power

   C) Books

9. Which of these is a job robots CAN do?

   A) Playing video games

   B) Cleaning the floor

   C) Sleeping

10. What is programming?

    A) Telling a robot what to do

    B) Drawing a robot

    C) Painting a robot.

PART III. COMPLETE THE FOLLOWING IF SITUATIONS: WRITE THE NAME OF THE CORRECT COMPONENT TO COMPLETE THE IDEA. 10PTS. 2PTS EACH.

1. If I need my robot to see different colors, I need a _____.

2. If I need my robot to move its wheels or arms, I need an _____.

3. If I need my robot to detect light in a room, I need a

   _____.

4. If I need my robot to measure distance from an object, I need an

   _____.

5. If I need my robot to follow commands and run programs, I need a

   _____.

PART IV. USING YOUR OWN IMAGINATION, DESIGN A ROBOT AND DESCRIBE ITS FUNCTION. 6PTS

Name of the robot: _____.

Functionality:

_____

_____

_____.