Name: _____ Grade level: _____

1. In one sentence, what is artificial intelligence (AI)?

2. Write down one way you can apply AI to solve a real-world problem.

3. Circle the correct answer: To function, self-driving cars use:
    a. Artificial intelligence & machine learning
    b. Artificial intelligence & deep learning
    c. Human intelligence, Deep learning, and machine learning
    d. Artificial intelligence, machine learning, and deep learning

4. Complete the sentences:
    a. All deep learning is _____ and

    _____.

    b. But not all _____ and

    _____ is deep learning.

    c. All machine learning is

    _____ . But not all

    _____ is machine learning.

5. Circle one: The structures and learning processes of neural networks are based on the
   _____.
    a. Internet
    b. Human brain
    c. Bats' echolocation abilities
    d. Sea turtles' magnetic field GPS

6. Circle the **_WRONG_** answer: neural networks are _____.
    a. Complex mathematical models

b. Networks of neurons
c. Commonly applied to healthcare problems
d. Not a type of deep learning algorithm

7. Match each scenario to the AI/ML/DL algorithm best suited to solve it:

1. Estimate how many Teletubbies Halloween costumes will sell next year using current linear data.

A. Naive Bayes

2. Classifying a random tweet as mean (0) or nice (1)

B. Neural networks

3. Classifying a tumor as cancerous or not cancerous

C. Linear regression

8. Write the words artificial intelligence, machine learning, and deep learning in the appropriate circles: