

Answer Key:

Question 1 (2 points): The output will be: 2 4 6 8 10

Question 2 (2 points): A for loop is generally used when the number of iterations can be pre-determined, while a while loop is used when the number of iterations is not known beforehand; for example, iterating through a list using a for loop versus waiting until a specific user input is received using a while loop.

Question 3 (2 points): The output will be: [2, 4]

Question 4 (2 points): The following Python code will print all the even numbers between 1 and 10 (inclusive) using a while loop: `x = 1 while x <= 10: if x % 2 == 0: print(x) x += 1`

Question 5 (2 points): The output will be: apple