Design Technology - Grade 8
Checkpoint 3 (CA) Revision

Q1. Below are survey results of a class on popular favourite subject. The most popular is Math. Why is the data biased? (3 marks)

favourite subject	Votes
Math	10
English	3
DT	2

Garde 6 asked	15 out of 15
Grade 8 asked	Zero out of 15

1. There are only 3 subjects.
2. No grade 8 were asked.
3. No grade 6 were asked.
4. DT only had 2 votes.

Q2. A machine learning model is used to tell if an object is an orange or not. It uses 10 pictures of oranges and keeps on getting it wrong. Look at the graph below. How can you make the model better? (3 marks)

Pictures of oranges	Score
5	0%
500	40%
5000	70%
50,000	90%

1. Add more pictures of oranges to the model.
2. Use fewer pictures of oranges in the model.
3. Add pictures of strawberries.
4. Add pictures of vegetables.

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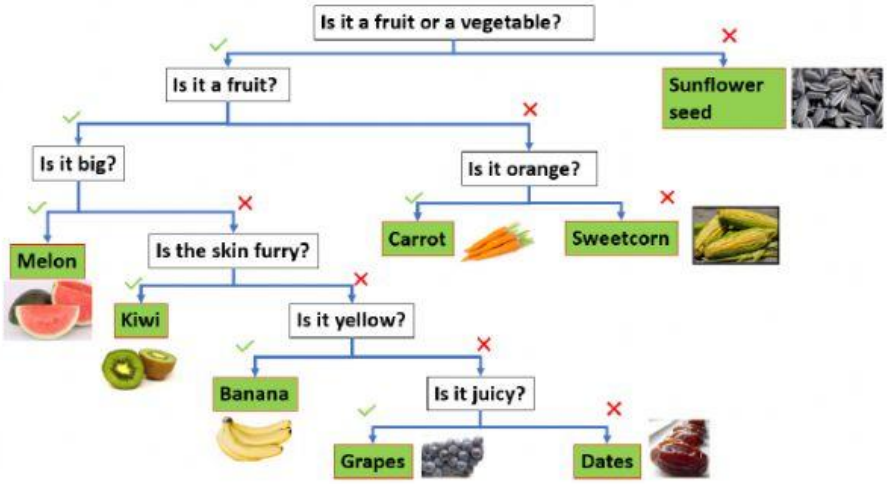
Q3. What do you call a diagram that shows how to ask questions and make decisions? (1 mark)

1. A pie chart
2. A decision tree
3. An agent
4. A microcontroller

Q4. How would you describe a watermelon using this decision tree? (2 marks)



1. It is a fruit, and it is big.
2. It is a fruit, it is not big, its skin is not furry, and it is yellow.
3. It is not a fruit or vegetable.
4. It is a fruit or vegetable, it is not a fruit, it is orange

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Q5. For the final project, which requirement is related to using selection? (2 marks)

1. Use conditionals to decide which message to output.
2. Use typecasting.
3. Use mathematical operators.
4. Use a loop to input the different day's data

Q6. We test the project code to find and fix error? (2 marks)

1. True
2. false

Q7. Which question can you ask to reflect on your own performance in your project? (1 mark)

1. Which software is best for the project?
2. How could I have made my project better?
3. What would happen if I changed the attendance from 80% to 40%?
4. Did my friend complete the project?

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