

2. A gardener sees patches of rot on his rose bushes. Describe two ways he could find out which disease his plants are infected with.

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3. Describe the ways plants defend themselves from disease:

a) physically

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b) chemically

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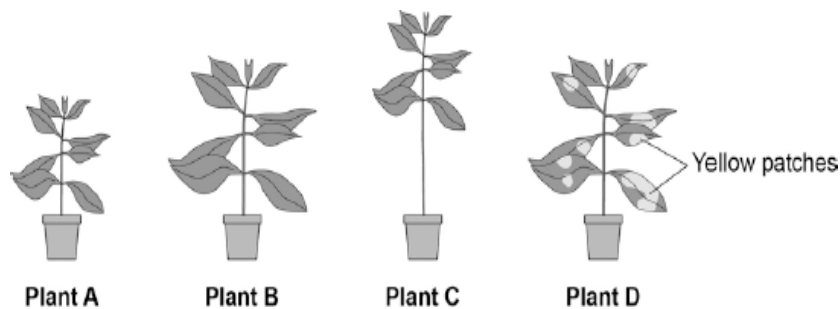
c) mechanically

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4. Cancer cells produce unique proteins on their cell surface. Explain how a monoclonal antibody could be used to deliver a chemical that will damage these cancerous cells.

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5. The diagram below shows four plants. The plants were grown in four different growing conditions:



- sunny area, with nitrate and magnesium added to the soil
- sunny area, with magnesium but **no** nitrate added to the soil
- sunny area, with nitrate but **no** magnesium added to the soil
- dark area, with nitrate and magnesium added to the soil.

Write the letter of the plant next to the conditions they were grown in