**SB6 Revision Mat**

Uses of plant hormones

Explain how auxins are used by plant growers.

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Give the uses of gibberellins

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Explain how farmers ripen fruit once it has been removed from the tree.

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Describe how plants take in mineral ions to make new proteins

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Plant hormones

Name three plant hormones

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What are positive and negative phototropism and gravitropism?

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How do auxins cause tropism in shoots and roots?

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Describe the effect of carbon dioxide on the rate of photosynthesis

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Plant adaptations

Why do some plants have needle-shaped leaves?

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How do plants reduce water loss?

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Label the leaf



**SB7 Revision Mat**

The kidneys

Describe the parts of the nephron.

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Describe how filtration and reabsorption takes place in a nephron.

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Describe the effect of ADH nephrons

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Osmoregulation

Explain why osmoregulation is important.

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Give the structure of the renal system and describe what each part does.



Evaluate how kidney failure can be treated.

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Plant adaptations

Explain why it is important to control core body temperature.

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Describe how the skin, muscles and the hypothalamus involved in controlling body temperature.

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Describe how blood vessels help in controlling body temperature

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**SB8 Revision Mat**

Factors affecting diffusion

Describe how the rate of diffusion is affected by:

Surface area: ……………………………………………………………………………………

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……………………………………………………………………………………Concentration:

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Describe the relationship between the rate of diffusion and diffusion distance.

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State Fick’s law.

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**SB9 Revision Mat**

Food security

Define “food security”

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Give the factors that affect food security.

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Describe how these the factors that affect food security.

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Assessing pollution

Define an “indicator species.”

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How are the following indicator species used as indicators:

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Invertebrates

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Black spot fungus

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Evaluate how useful indicator species are as evidence of pollution

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Energy transfer

Describe how energy transferred from each tropic level, including ways that are not useful for the organism.

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Explain how energy transfers limit the length of food chains.

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Give the equation for efficient between trophic levels.

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**SB9 Revision Mat**

Factors affecting diffusion

Describe how to reduce the rate of food decomposition ……………………………………………………………………………………

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Describe how to increase the rate of decomposition in composting. ……………………………………………………………………………………

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State how to calculate the rate of decay.

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