**Bozeman Biology**

**Transport across Cell Membranes video**

http://bit.ly/WIoQ4x

1. Does the movement of molecules to fill the room require energy?

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2. What are the two forms of transport?
   a. _____
   b. _____
3. What is Diffusion and describe an example in living systems.

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4. What is specific to Osmosis?

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5. What is a specific type of diffusion that requires proteins called?

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6. What substance is needed for active transport?

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7. What is large scale active transport? Give two examples:

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8. When the gray and black particles move, what determines in what direction do they go? is this ordered movement?

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9. Where can diffusion be seen in living systems?

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10. Define Osmosis.

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11. Describe the U-tube experiment:

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12. Why does the slug shrivel up?

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13. Describe the significance of Osmosis with respect to red blood cells in different concentrations of water.

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14. Define Hypertonic

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15. Define Isotonic

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16. Define hypotonic

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17. Define facilitated diffusion.

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18. What is the difference between diffusion and facilitated diffusion?

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19. What is a concentration gradient?

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20. Describe how glucose enters the cell.

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21. What is co-transport? describe an example.

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22. What is active transport?

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23. Describe how the sodium potassium pump works.

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24. What is the ATP : Na : K ratio?

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25. What is endocytosis? Describe how does it take place.

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26. What could a phagosome be called as well? (Not in the video)

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27. What is exocytosis?

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28. Describe an example of this.

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