**Bozeman Biology**

**Cell Membranes # 2 video**

<http://bit.ly/ycMhWX>

1. Why does soap dissolve the membrane easily?

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1. What is selective permeability? How does the cell achieve this?

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1. What are the major molecules in the cell membrane?

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1. Define Amphipathic. How does this affect transport across the membrane?

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1. What role do proteins play in transport?

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1. What kinds of cells have cell walls?

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1. Describe the fluid cell membrane

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1. What are the two roles of cholesterol in the membrane?
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What are glycoproteins made up of, and what is their role in the membrane? Name an important glycoprotein.

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1. What are glycolipids made up of , and what is their role in the membrane?

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1. Draw and describe the structure of a phospholipid - indicate the charges on the molecule.

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1. Is fat = phospholipid? why/why not?

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1. Describe the charge distribution of the membrane.

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1. Why can’t water move through the membrane?

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1. What are the characteristics and examples of substances that can move easily through the membrane?

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1. How do proteins assist in transport?

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1. What kinds of particles move through proteins?

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1. What kinds of transport do proteins assist with?

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1. Name two characteristics of the cell wall.

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1. What material makes up the cell wall of
   1. Plants: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Bacteria: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. Fungi: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_