

Active and Passive Transport (Worksheet)

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Q1. Which of these 2 processes is energy-requiring? Explain why. (1 mark)

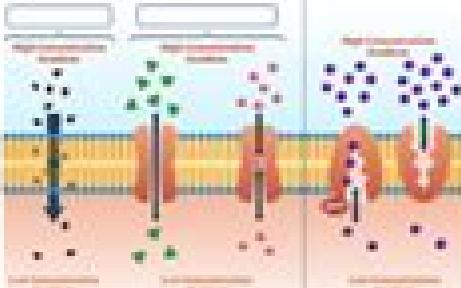
- Diffusion
- Active transport
- Both
- Neither

Q2. Which of the following statements is true in the context of passive transport?

- Diffusion is a passive process.
- Diffusion is an active process.
- Diffusion is a passive process because it moves molecules from a region of higher concentration to a region of lower concentration without the use of energy.
- Diffusion is an active process because it requires energy.

Q3. Fill in the words in the box to label terms in the active and passive transport diagrams.

• Diffusion
• Active transport
• Passive transport



Q4. Which of the following is a type of passive transport?

- Diffusion
- Active transport
- Convection
- Conduction

Q5. Which of the following is a type of passive transport?

- Diffusion
- Endocytosis
- Convection
- Conduction

Q6. Match the following statements about the cell membrane to their:

- make up of phospholipid bilayers
- selectively permeable, allowing certain substances to pass through while blocking others
- allow movement of proteins in the cell membrane
- allow movement of proteins across the cell membrane using energy

Q7. The diagram shows the movement of the protein across the membrane from left to right.



What type of transport process is this? Explain your answer.

• Diffusion
• Active transport
• Convection

Q8. Which of the following terms is opposite to the movement of molecules from high concentration to low concentration through transport across the cell membrane without using energy?

- Diffusion
- Convection
- Conduction

Q9. Which of the following terms is different to the diffusion of water through a partially permeable membrane?

- Convection
- Endocytosis
- Conduction
- Convection

Q10. Match the following statements about active transport to their:

- active transport moves against the concentration gradient
- energy is required for active transport
- active transport moves from higher concentration to lower concentration
- the protein transports going by processes of active transport

Q11. Which one of the following terms is different to the ability to move in a fluid medium?

- Diffusion
- Endocytosis
- Convection
- Conduction

Q12. Which type of transport moves along the concentration gradient in the high diffusion?

- Diffusion
- Endocytosis
- Convection
- Conduction

Q13. The use of diffusion _____ in the interpretation of results.

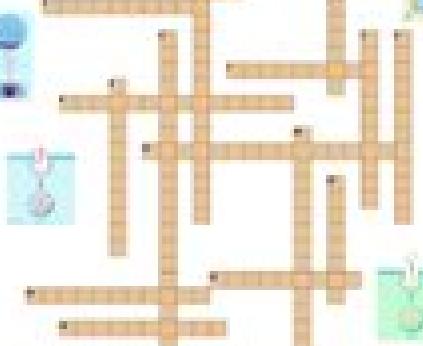
- is important
- is irrelevant
- is not necessary

Active and Passive Transport (Worksheet)

Q1. Match the following statements about the cell membrane to their:

- make up of the energy-requiring process
- make up of the passive process
- allow movement of proteins across the cell membrane using energy
- allow movement of proteins across the cell membrane without the use of energy
- allow movement of proteins across the cell membrane using energy
- allow movement of proteins across the cell membrane without the use of energy
- allow movement of proteins across the cell membrane using energy
- allow movement of proteins across the cell membrane without the use of energy

Q2. The diagram shows the movement of protein through a cell membrane against the concentration gradient using energy.



What type of transport process is this? Explain your answer.

• Diffusion
• Active transport
• Convection

Q3. The diagram shows a protein embedded in a phospholipid bilayer membrane, moving from left to right.



What type of transport process is this? Explain your answer.

• Diffusion
• Active transport
• Convection

Q4. The diagram shows a protein embedded in a phospholipid bilayer membrane, moving from left to right.



What type of transport process is this? Explain your answer.

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What type of transport process is this? Explain your answer.

• Diffusion
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Q7. The diagram shows a protein embedded in a phospholipid bilayer membrane, moving from left to right.



What type of transport process is this? Explain your answer.

• Diffusion
• Active transport
• Convection

Q8. The diagram shows a protein embedded in a phospholipid bilayer membrane, moving from left to right.



What type of transport process is this? Explain your answer.

• Diffusion
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Q9. The diagram shows a protein embedded in a phospholipid bilayer membrane, moving from left to right.



What type of transport process is this? Explain your answer.

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Q10. The diagram shows a protein embedded in a phospholipid bilayer membrane, moving from left to right.



What type of transport process is this? Explain your answer.

• Diffusion
• Active transport
• Convection

Active And Passive Transport Answers

Toby Miller,Harley

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Bolden,Eugenia L. Mobley,Elzer S. Chandler,1973 **Prentice Hall Science Explorer: Teacher's ed** ,2005 **Human**

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