

# Active and Passive Transport (Worksheet)

**Active and Passive Transport (Worksheet)**

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 that occurs from a region of higher concentration to a region of lower concentration without the use of energy.
- Diffusion is an active process that occurs from a region of higher concentration to a region of lower concentration.

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

• Facilitated diffusion  
• Active transport  
• Passive transport

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

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q5. Which of the following is NOT a type of passive transport?

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q6. Which of the following is/are true about the diffusion of water through a cell membrane?

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q7. Which of the following statements about active transport is/are true?

- Active transport requires energy against the concentration gradient.
- Energy is required for active transport.
- Active transport is faster than passive transport due to lower concentration.
- The protein channels going to passively allow for passive transport.

Q8. Which one of the following terms is different to the others in context of a passive condition?

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q9. Which type of transport moves living organisms in the high diffusion?

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q10. The loss of diffusion \_\_\_\_\_ is the main adaptation in desert plants.

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q11. Which of the following statements about the cell membrane is/are true?

- The fluidity of a phospholipid bilayer is determined by the temperature.
- The fluidity of a phospholipid bilayer is determined by the type of membrane.
- The movement of molecules from an area of high concentration to an area of low concentration.
- The type of phospholipid that makes up a membrane determines the fluidity.

Q12. Which one of the following terms is different to the others in context of a high diffusion?

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q13. Which type of transport moves living organisms in the high diffusion?

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q14. The loss of diffusion \_\_\_\_\_ is the main adaptation in desert plants.

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q15. Which of the following statements about the cell membrane is/are true?

- The movement of passive transport is only passive.
- The movement of active transport is only active.
- The movement of active transport is only active.
- The movement of passive transport is only passive.

**Active and Passive Transport (Worksheet)**

Q16. Which of the following statements about the cell membrane is/are true?

- The fluidity of a phospholipid bilayer is determined by the temperature.
- The fluidity of a phospholipid bilayer is determined by the type of membrane.
- The movement of molecules from an area of high concentration to an area of low concentration.
- The type of phospholipid that makes up a membrane determines the fluidity.

Q17. Which one of the following terms is different to the others in context of a high diffusion?

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q18. Which type of transport moves living organisms in the high diffusion?

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q19. The loss of diffusion \_\_\_\_\_ is the main adaptation in desert plants.

- Diffusion
- Endocytosis
- Exocytosis
- Convection

Q20. Which of the following statements about the cell membrane is/are true?

- The movement of passive transport is only passive.
- The movement of active transport is only active.
- The movement of active transport is only active.
- The movement of passive transport is only passive.

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