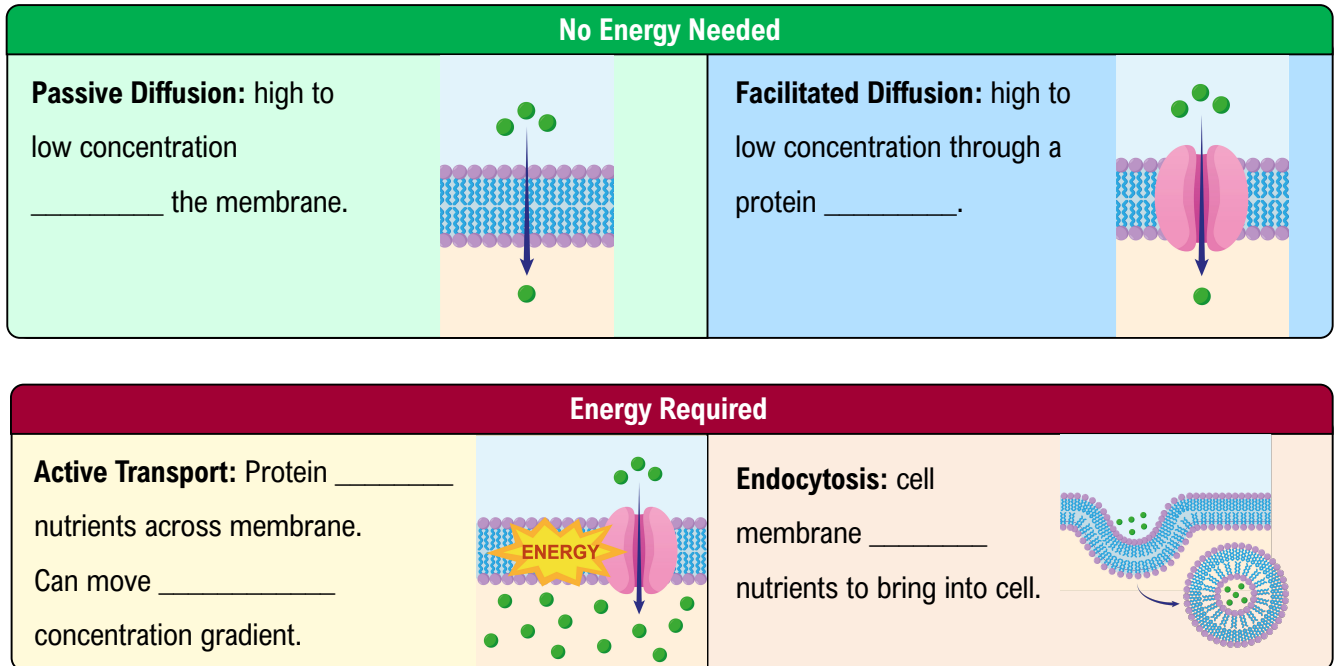


TOPIC: NUTRIENT ABSORPTION AND TRANSPORT

Nutrient Absorption

◆ **Absorption:** moving nutrients from the digestive tract into the _____ of the intestinal wall.



PRACTICE

In which type of absorption does a carrier protein move a molecule without additional energy?

- | | |
|---------------------------|----------------------|
| a) Passive Diffusion. | c) Active Transport. |
| b) Facilitated Diffusion. | d) Exocytosis. |

TOPIC: NUTRIENT ABSORPTION AND TRANSPORT

Nutrient Transport Through the Body

◆ Nutrients are absorbed by the _____ of the small intestine.

Water Soluble

Absorbed into the _____ of the capillaries.

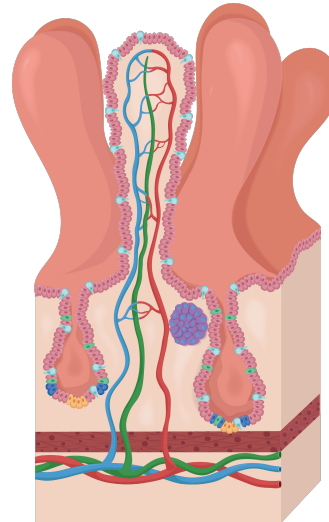
Capillaries → _____ → heart → rest of the body.

Fat Soluble

Absorbed into the _____ part of lymphatic system.

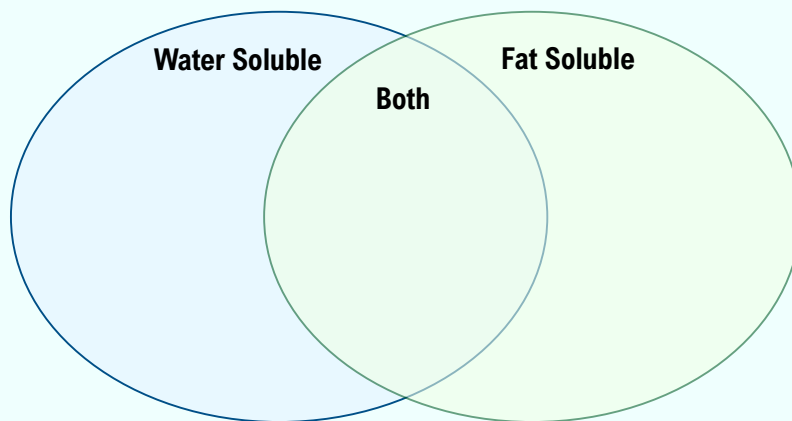
Lacteal → lymphatic system → blood → rest of the body.

_____ of the small intestine.



EXAMPLE

Using the statements in the box, fill in the Venn diagram about nutrient transport through the body.



Statements

- Passes through the liver before traveling to the rest of the body.
- Absorbed in lacteals.
- First absorbed into the cells of the villi.
- Absorbed into capillaries.
- Absorbed in the small intestine.
- Transported to the rest of the body in the blood.

PRACTICE

Which nutrients would NOT go through the hepatic portal vein to the liver after being absorbed?

- Fat soluble vitamins.
- Water soluble vitamins.
- Amino acids.
- Simple sugars.