LS11 **Insane in the Membrane - Project**

Demonstrate your understanding of the properties and abilities of the cell membrane with both visual representations and written explanations.

1. Why is the cell membrane flexible? Draw a visual representation, label the components. Research the Fluid Mosaic Model to explain the flexibility.
2. How is selectively permeable different from semi-permeable and why it is important to the cell?
3. Why can you smell vanilla inside a balloon? How does this relate to the cell membrane?
4. How do cells get their nutrients/eliminate waste of small and large particles?
5. Why do cells shrink when surrounded by salt water?
6. How is pushing a ball up a ramp like active transport in a cell?
7. Why do cells need to be so small? What adaptations do large cells have/do if they can’t be small? Give examples and draw pictures.

You will use the following terms/concepts in your written and visual representations:

Cell membrane

Lipid bilayer

Concentration

Gradient

Diffusion

Equilibrium

Osmosis

Facilitated

Endocytosis

Exocytosis

Isotonic

Hypertonic

Hypotonic

Proteins

Solute

Active Transport

Passive Transport

Energy

Protein Pump

Protein Channel

Selective Permeability

AI

Copy into chat

Help me to build a lesson plan – intro yourself, chat asks you questions to build

Open AI blog post has example prompts for this

Abobe illustrator has sample images

Chat will also generate quiz if you

Generate written response from multiple choice, give two versions of test. Try using competencies. Generate 5 MC, and 2 written responses, and one essay – you mst check though.

Use phone, scan, convert to text, then to Chat

Can you generate a text copy of the image? - no

Use AI for students to understand what happended in scene 1. so they know what happened. Assess them on Critical thinking: the why – how do you feel about it?

Detecting AI

No spelling, perfect punctuation

Lacks voice and personality

Patterns in large samples

Inconsistent styles, tone, tense

Sometimes not used throughout the assignment

Tools

Slides go – makes presentations – writing tone, number of slides, gives images

Canva – generate a reading about DNA for science 10 students. Generate to be 500 words/ for ELL level students. Has Magic Write imbeded for presentation slides

Curipod – full lesson generatore eg. Learn about fractions and convert into decimals. Takes time

Eduaide is like magic school. Maybe overwhelming. Analayze cause and consequences of WWI, generate evidence statements: I can .... use Bloom’s Taxonomy. Rubrics, lesson plans, activities, ...

Not free: Quizizz- upload documents, based on notes generate vocabulary quiz for ELL students about ... number of Qs,