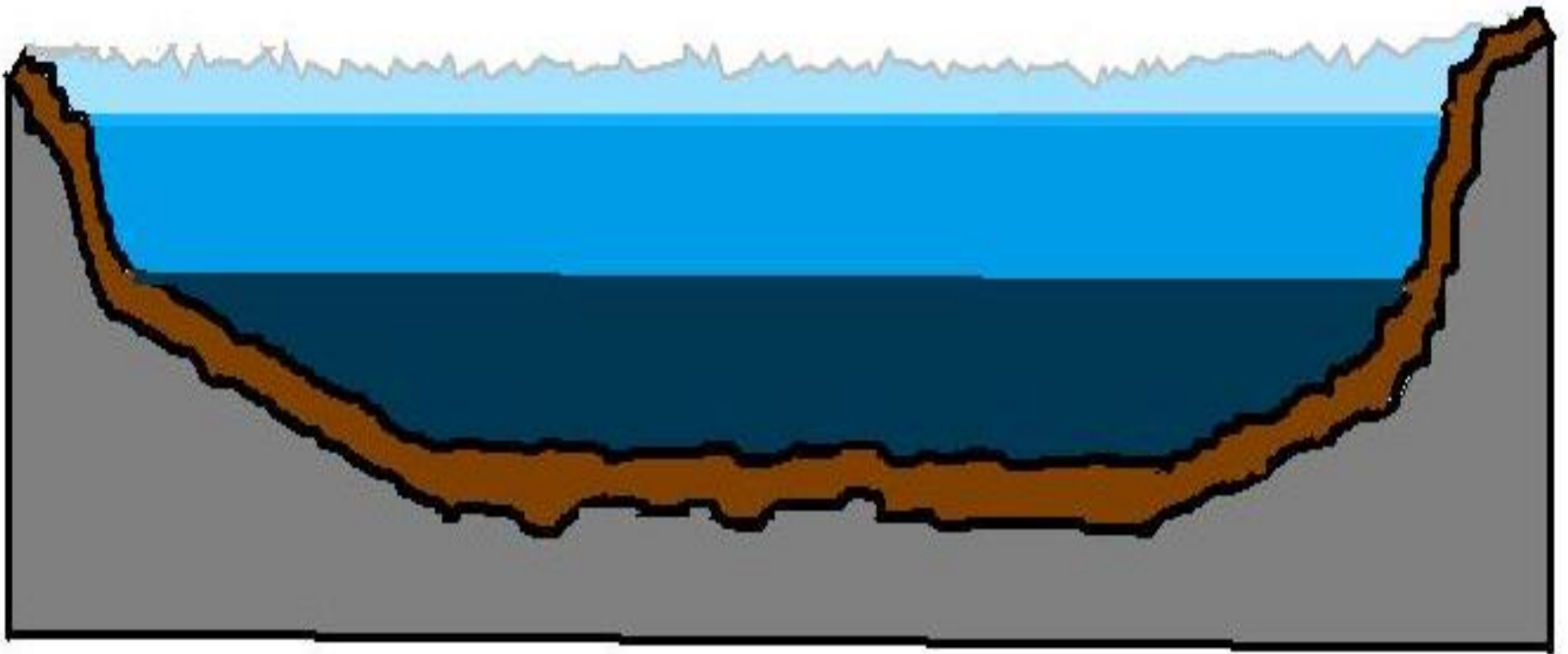
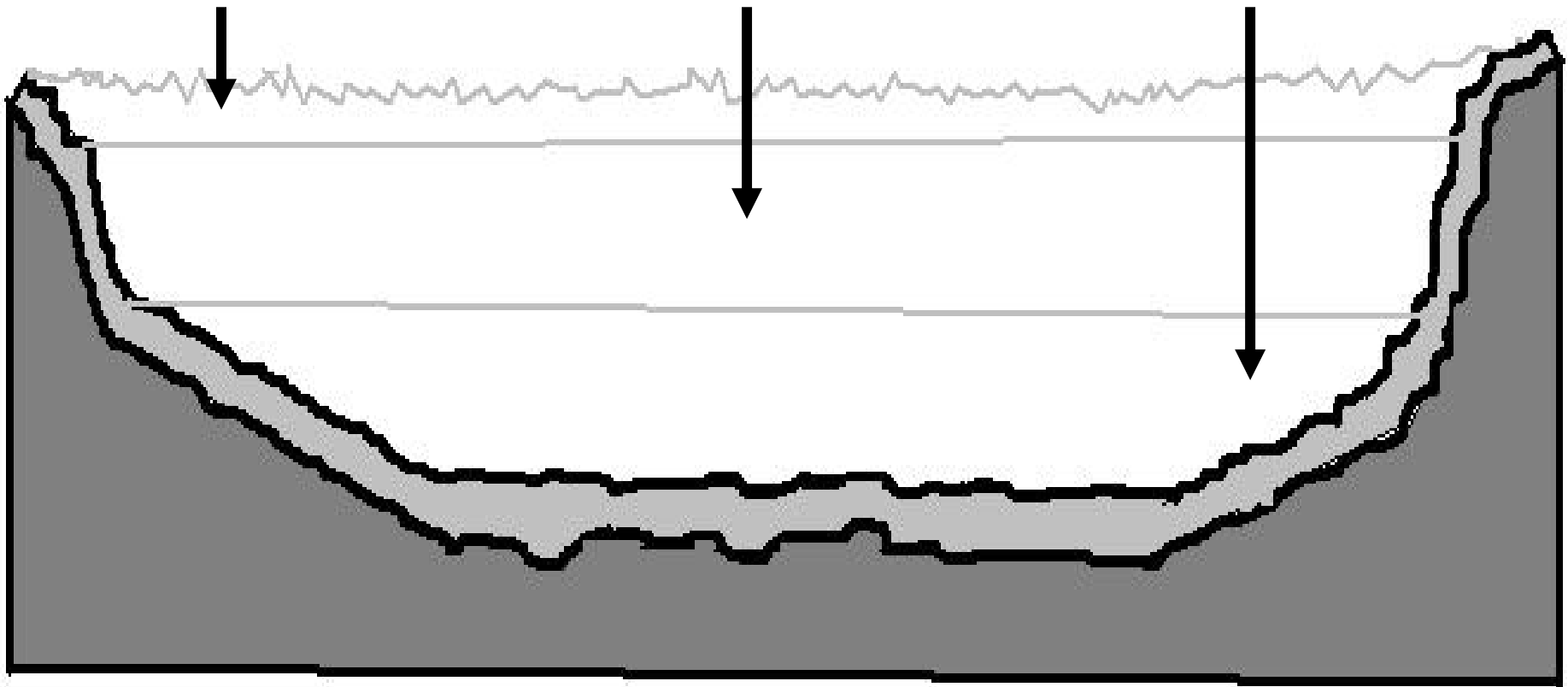


Compare the amount of light at different ocean zones.



Compare the amount of light at different ocean zones.



Compare the amount of light at different ocean zones.

## EUPHOTIC ZONE

From the surface to about 50 meters below

Has enough light for photosynthesis to take place

Plankton and seaweed are only found here

## DYSPHOTIC ZONE

From about 50 to 1000 meters below the surface

Enough light for vision but not enough for photosynthesis

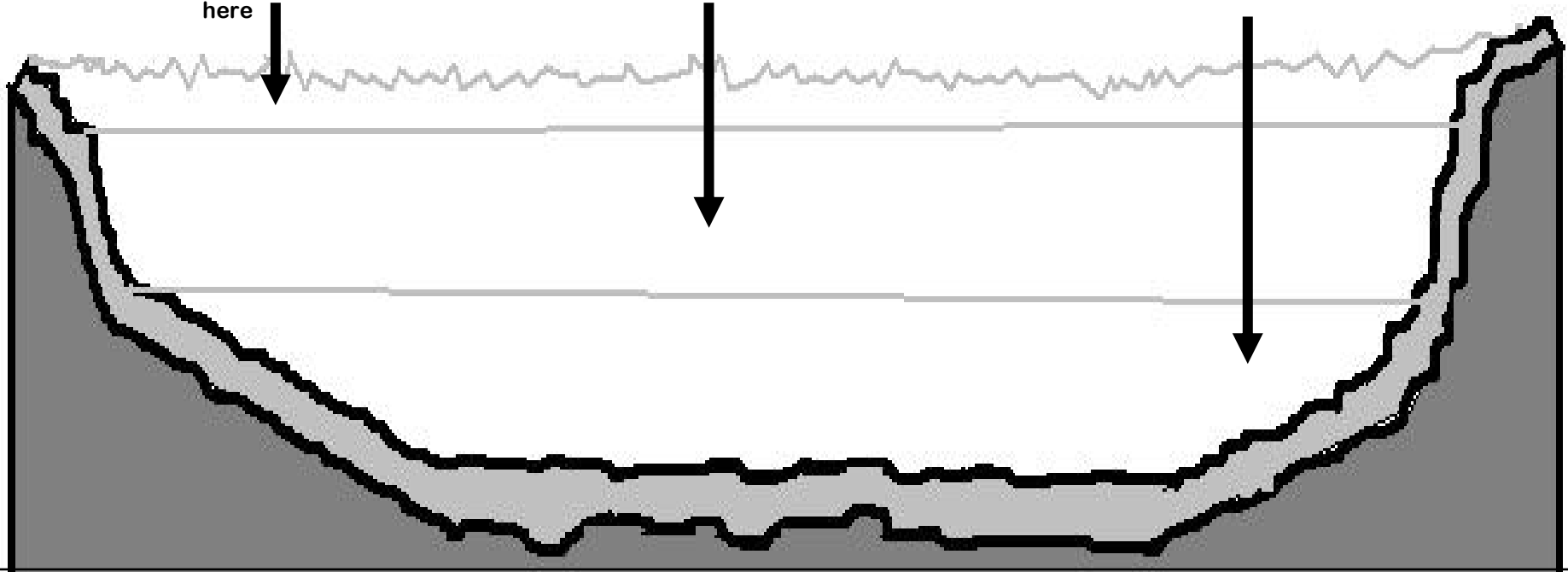
Amount of light decreases with depth

## APHOTIC ZONE

More than 1000 meters under the surface

No light

Animal life is rare and produces own light through bioluminescence.



*Place a tall transparent vase or glass over a piece of newspaper. Ask students to read. Ask if they could still read if some water was poured into the glass. Add enough water to fill the container one-fourth full. Let them read the print. Explain that the light can penetrate through that depth of water. Ask how much water would be needed so that light could not shine all the way through. Continue adding water. When you get to the top, they will still be able to read. Explain light easily penetrates water for about 50 meters. Step out 50 meters on your yard or road. Some light penetrates for 1000 meters.*

## Geology 5 Information Pieces

<b>EUPHOTIC ZONE</b>
<b>DYSPHOTIC ZONE</b>
<b>APHOTIC ZONE</b>
From the surface to about 50 meters below
Has enough light for photosynthesis to take place
Plankton and seaweed are only found here
From about 50 to 1000 meters below the surface
Enough light for vision but not enough for photosynthesis
Amount of light decreases with depth
More than 1000 meters under the surface
No light
Animal life is rare and produces own light through bioluminescence.

*To Make Your MatchCard more durable:*

- 1. Put the student MatchCard and instructor MatchCard back to back in a clear plastic page protector.*
- 2. Laminate the information pieces. Or you can make them sturdier by covering the paper with transparent tape prior to cutting the pieces out.*
- 3. For more ideas on how to use the MatchCards, and for keeping a notebook for review, see the Instructor's Guide.*