

The Oceans and The Climate

Kurzgesagt Gulf Stream

- What 2 things affect the density of water?
- What is the effect of the gulf stream on the weather in Northern Europe?

[56] Ocean Temperatures *Issues and Life Science p.E-31—> E33 + Ocean Temperature Map*

A. Complete your Group Map

B. Answer the questions below

- What is the temperature range (highest to lowest) of the ocean?
- What patterns do you see as you move north or south of the equator?
- What areas of the map surprise you?

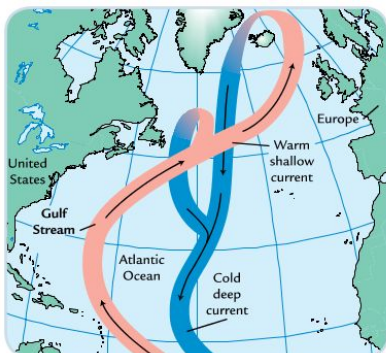
[57] Oceans and Climate - *Issues and Life Science p.E-34 —> E40*

A. Follow the procedure on page E-35 (skip #4)

B. Read through the first 2 pages as a group. Read the rest on your own.

- Oceans can store large amounts of heat. How does this affect climate? Use the diagram below as evidence (see page E-36 in the textbook for the color image).

OCEAN CURRENTS:
THE NORTHERN
ATLANTIC OCEAN



2. Look at the diagram below. Describe the likely effect of the California Current on the climate of California.

The California Current is a cold water current that flows from north to south along the coast of California.



Weather and Climate: global weather patterns

4 Highly Proficient	3 Proficient	2 Close to Proficient	1 Developing
<ul style="list-style-type: none"> <input type="checkbox"/> My answers are detailed. <input type="checkbox"/> My answers use evidence <u>beyond</u> the diagrams on the page. 	<ul style="list-style-type: none"> <input type="checkbox"/> I can explain the effect of ocean currents on climate <u>with detail</u>. <input type="checkbox"/> My work is neat. 	<ul style="list-style-type: none"> <input type="checkbox"/> I can describe the general effect of ocean currents on climate. <input type="checkbox"/> My answers need more detail. <input type="checkbox"/> Some of my information may be incorrect. <input type="checkbox"/> My work is incomplete. <input type="checkbox"/> My work is rough draft quality. 	<ul style="list-style-type: none"> <input type="checkbox"/> I show little to no understanding of global weather patterns.