

Oceanography Interactive Notebook Page Requirements (through Mid-Term)

Page	What To Include
1	Title Page & Name
2	What is Oceanography? Article & notes
3	Why Did We Explore? And Why Do We Explore?
4	World Oceans Map, Average Salinity, Highest Salinity, Lowest Salinity, Salinity Calculation
5	Latitude & Longitude, Map, Units
6	Lat & Long World Map with plotted points
7	People(s) who contributed to ocean exploration
8	Oceanography Timeline
9	Why is the ocean different?, Equipment (refractometer, hydrometer, Bathysphere, Trieste)
10	Equipment (ALVIN, ROVs)
11	Equipment (Okeanos Explorer, AUVs, Remote Sensing, Telepresence)
12	World Map - Oceans, Seas, & Gulfs ID
13	Water Terms (halocline, thermocline, pycnocline, universal solvent), 3 states of water
14	Cohesion, Adhesion, Surface Tension, Heat Capacity, Temperature change during the day
15	Molecular Properties of Water (density, viscosity, polarity, bonding, etc)
16	Salinity & Solids in Seawater, Fresh to Briny Water Bottle Pic
17	Dissolved Gases in Seawater, Density
18	Density Zones/Stratification
19	Light in the Ocean, Light Zones, Refraction, Reflection
20	Light Penetration
21	Adaptations to Light in Water, Bioluminescence, Countershading, Why?
22	Sound in Water - Distance travelled, Velocity, Way it travels, Speed
23	SoFAR Channel, SONAR, Echolocation
24	Ocean Pressure Chart, Water Temp with Endotherms, Ectotherms
25	Layers of the Earth, Percentages, Crust Types, Ocean Basins
26	Tectonic Plates ID, Support & Evidence (1620, 1915, 1940)
27	Support & Evidence (1960, 1963, 1965, late 1960s), Ring of Fire data map, Fossil Record map
28	Plate Movement Pic, Divergent & Convergent boundaries
29	Transform boundaries, Seafloor Spreading (Hawaiian Island map & calculations)
30	Hydrothermal Vents (pic, who found, where found, black vs white, temps surrounding)
31	Vent Food Web (pic &/or written)
32	Marine Sediments (4 types, what, why, where, how)
33	Spheres of the Earth, Weather vs Climate, Global Air Circulation, Coriolis Effect
34	Atmospheric Circulation Cells (pic & definitions), ITCZ, Monsoons
35	Sea Breeze vs Land Breeze
36	Storms (hurricanes, cyclones, typhoons, safir simpson scale, where & why, part ID)
37	Ocean Currents (pic & ID), Surface vs Deep, Gyres, Eckman Spiral
38	Current Basins (east vs west), temp & salinity effect on currents, upwelling, turbidity, undertow, rip current
39	El Nino facts (normal vs el nino years), La Nina, ENSO
40	Waves (wavelength, parts, factors, wave height, causes, deep water vs shallow water)
41	Breakers (spilling, plunging, surging), best to surf, whitecaps, swells, rogue waves, constructive & destructive
42	Tsunamis, dates (1883, 1957, 2004, 2011), wave train, signs, energy source, refraction, reflection, diffraction
43	Tides (Spring & Neap - drawings/pics), Tidal Range, flood, ebb, slack, turning, gravity & forced)
44	Tide Types (Semi, mixed, diurnal - world map), why?, tide tables, Ga coast, tidal day
45	Reading a Tide Table, Calculating Tidal Range, Tidal Variations (causes, impact, & modifiers)
46	Sea Turtle characteristics, numbers vs %, Conservation, Archelon, 3 types turtles
47	Sea Turtle ID Key (with names covered)
48	Sea Turtle Info - must include 5 main species & info/characteristics of each
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