

Ocean acidification articles: readability scores

The results were compiled by inserting the entire text into the calculator at <https://readability-score.com/>

*These articles have been used successfully by many teachers in various settings. The higher grade level scores are due to words like **acidification** (found in many) and climatologist which, while having 5 syllables, are generally easy for students to decipher.

Flesch–Kincaid Grade Level (Wikipedia.com)

The grade level is calculated with the following formula:

$$0.39 \left(\frac{\text{total words}}{\text{total sentences}} \right) + 11.8 \left(\frac{\text{total syllables}}{\text{total words}} \right) - 15.59$$

The result is a number that corresponds with a U.S. grade level. The sentence, "The Australian platypus is seemingly a hybrid of a mammal and reptilian creature" is a 13.1 as it has 26 syllables and 13 words.

Article Readability Information

#	Pg.	Title	Word count	Grade level	Notes/vocab examples
1	1	Acidified seawater showing up along coast ahead of schedule	882	10.6	Swaths, corrosive
2	5	The Bergen Mesocosm-a case study	652	11.5	Mesocosm, biomass, archaea, biogeochemical
3	7	Ocean researchers dive deeper into Puget Sound's acidification	955	9.5	Corrosive, dampening
4	9	The Coming Diatom Economy	332	18	Orientation, polymers, eschew,
5	11	Ocean Acidification Changes Nitrogen Cycling in World Seas	599	14.8	Oxidizer, pivotal, biogeochemical, emissions, caveat
6	13	A Wave of Toxic Green Beaches, Saint-Michel-en- Greve, Brittany, France	707	10.9	Encroachment, menace, lethal, proliferation
7	15	Melting Ice Sheets Can Cause Earthquakes, Study Finds	659	10.9	Bolsters, seismicity, malnutrition, cognition
8	17	Global Climate Change and Infectious Diseases	1305	14.3	Reemitted, hydrologic, sanitation, epidemiology; has data table
9	21	Global Photosynthesis: New Insight Will Help Predict Future Climate Change	761	19.3	Phototsynthesis, analyzing, refinements, biosphere,

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9 cont.					quantifying
10	23	Whale poop is vital to ocean's carbon cycle	475	11.5	Soluble, sequester
11	25	Adding Iron to Ocean Won't Stop Global Warming	571	12.1	Ambitious, geoengineering, nanotubes, biomass
12	27	More Carbon Dioxide May Create a Racket in the Seas	313	10	Consequence, absorption, acoustic, echolocation
13	29	Ocean Acidification Poses Little Threat to Whales' Hearing, Study suggests	277	14.9	Navigate, propagation, negligible, complex graphic
14	31	Ocean Acidification Leaves Clownfish Deaf to Predators	404	14.5	Crucial, compromised,
15	33	Jellyfish are taking over the oceans: Population surge as rising acidity of world's seas kills predators	581	11.2	Inundated, abundance, niche, alkaline, unprecedented
16	35	Land - Rising temperatures and shifting precipitation patterns are changing the geographic...	366	10.1	Constrained, synchronized, noxious
17	37	Acidity in ocean killed NW oysters, new study says	839	11.9	Incontrovertible, alkaline, fluctuations, upwelling, eroded, corrosive,
18	39	Upwelling	1,048	10.6	Turbulence, upwelling, topography, filament, facilitate, temperate; complex graphics
19	43	Excess Nitrogen Favors Plants that Respond Poorly to Rising CO ₂	609	11.4	Mitigate, brackish, consensus, sedge, composition, capacity, biomass; scientific names
20	45	Global Warming's Impact May be Detected in Genes, Suggests	439	12.8	Adaptability, activation, buffer, acute, parameter
21	47	Ocean Acidification is latest manifestation of global warming	1,495	10.5	Infernal, hydrofoil, quay, pumice, caldera, lair, subsequently,

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21 cont.					calamitous; Chemistry explanation
22	51	Ocean Acidification and Its Impact on Ecosystems	748	13.4	Inexorable, calcareous, priority, perturbation; Lots of acronyms
23	53	Climate Change Affects Ants and Biodiversity	404	10.8	Integral, cascading, incrementally, dispersal, biodiversity
24	55	Whales, Like Trees, Slow Warming	738	11.2	Gist, biomass, moratorium, convened, conversely, colossal
25	57	IISc to extract oil from Diatoms, algae	265	12.1	Sequesters, diatoms
26	59	Mercury in Seal's Diet Linked to Warming	714	9.8	Reverberating, correlation, contaminant, accumulate
27	61	Satellite images of Antarctic emperor penguins will benefit climate change research	667	10.5	Non-invasive, mottled, anthropomorphized, ramifications
28	63	Scientists cite global warming for more heat waves, heavier rainfall	913	12.7	Phenomena, many names and acronyms
29	67	Killer whales facing an airborne threat	1,187	9.7	Virulent, transient, pathogen, contagions, unheralded, garnered
30	71	Ocean Acidification: 'Evil Twin' Threatens World's Oceans, Scientists Warn	616	12.8	Calcifying, some names and acronyms
31	73	Climate change will impact infectious diseases worldwide, but questions remain as to how	659	14.3	Parsing, prevalence, synergistically
32	75	New 'ocean acidification' monitoring	1,068	11.1	Corrosive, jeopardize, irrefutable
33	79	Ocean off North Olympic Peninsula 10 times more acidic than thought	815	11.4	Corrosive, jeopardize
34	83	Ocean 'Time Machine' Illustrates Global Warming's Impact on Marine Life	731	10	Adaptation, aquaculture,
35	85	Changing the Chemistry of Earth's Oceans	243	12.8	Sink,

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35 cont.					paleoceanographers, analogies, catastrophic
36	87	Willapa Bay oyster grower sounds alarm, starts	1,100	11.1	Spawned, larvae, alkaline, lethargic, escalator
37	91	Report: Coastal waters to rise 6 inches by 2030	752	12.6	Seismic, projections, some agency names
38	93	Sea rise faster on East Coast than rest of globe	673	8.7	Accelerated
39	95	Puget Sound whales face intertwined obstacles	892	8	Intertwined, ingest, contaminants, diversity
40	99	Pain Remains from Exxon Valdez	895	7	Fjords
41	101	Scientists fear ocean acidification will drive the collapse of Alaska's iconic crab fishery	1,826	8.6	Crustaceans, collateral, corrosive, caveats; lots of dialogue, graphics
42	107	Scientists: Ocean acidification has arrived in the Northwest	797	13.3	Upwelling, intervention, reverberate,
43	109	Ocean's carbon budget balanced: Supply of food to midwater organisms	653	12.8	Biomass, detritus
44	111	<u>Inventory of Crap on the Ocean Floor</u>	679	8.4	Debris
45	113	Ocean Quickly Growing Acidic?	388	9.2	Alkalinity
46	115	"Rock snot" algae sneaking into more rivers	938	8	Pervasive, nuisance
47	117	Fish farms cause relative sea-level rise	558	11.2	Subsidence, lots of names
48	119	Plants have unexpected response to climate change	648	15.1	Parameters, topographically, precipitation, climatological, prioritize
49	121	Cantwell: Shellfish Growers Are The Canary In The	621	12	Buoys, curtailing, exacerbate
50	123	Beef and climate change collide	445	8.5	Intensive