

Appendix 5. Concept codes

Concepts (NODES)	Code	Categories level2
ice	100	Ice (code 1)
sea ice	101	Ice (code 1)
ice thickness	102	Ice (code 1)
ice melting	103	Ice (code 1)
iceberg	104	Ice (code 1)
iceberg melting/ decreasing	105	Ice (code 1)
glaciers	106	Ice (code 1)
primary producers/ base of food chain	200	Base food chain (code 2)
ice algae	201	Base food chain (code 2)
phytoplankton	202	Base food chain (code 2)
seaweed	221	Base food chain (code 2)
zooplankton	210	Base food chain (code 2)
krill	211	Base food chain (code 2)
ice copepod	212	Base food chain (code 2)
plankton	220	Base food chain (code 2)
clam	301	Mid-level food chain (code 3)
squid	302	Mid-level food chain (code 3)
fish	310	Mid-level food chain (code 3)
arctic cod/ cod	311	Mid-level food chain (code 3)
birds	400	Birds (code 4)
penguins	401	Birds (code 4)
eider ducks	402	Birds (code 4)
ivory gull	403	Birds (code 4)
marine mammals	500	Marine mammals (code 5)
polar bear	501	Marine mammals (code 5)
walrus	502	Marine mammals (code 5)
seals	510	Marine mammals (code 5)
bearded seal	511	Marine mammals (code 5)
ringed seal	512	Marine mammals (code 5)
whales	520	Marine mammals (code 5)
beluga whale	521	Marine mammals (code 5)
bowhead whale	522	Marine mammals (code 5)
gray whale	523	Marine mammals (code 5)
narwhal	524	Marine mammals (code 5)
humans in arctic	530	Humans in Arctic (code 5.3)

eskimos/indigenous	531	Humans in Arctic (code 5.3)
biodiversity	600	Other biodiversity Arctic (code 6)
native species	550	Other biodiversity Arctic (code 6)
ecosystem	601	Other biodiversity Arctic (code 6)
healthy (arctic) ecosystem	602	Other biodiversity Arctic (code 6)
wildlife/animals	603	Other biodiversity Arctic (code 6)
arctic animals/species	605	Other biodiversity Arctic (code 6)
food chain/relationship between animals	606	Other biodiversity Arctic (code 6)
bears	533	Other biodiversity Arctic (code 6)
sea lions	534	Other biodiversity Arctic (code 6)
global warming/ cc/ getting warmer	700	Environmental problems (code 7)
increase ocean temperature	701	Environmental problems (code 7)
changing ocean water temperature	702	Environmental problems (code 7)
greenhouse gases	710	Environmental problems (code 7)
carbon pollution/ co2	711	Environmental problems (code 7)
methane	712	Environmental problems (code 7)
ozone/O3	713	Environmental problems (code 7)
ultraviolet	714	Environmental problems (code 7)
pollution (generic)/ human pollution	720	Environmental problems (code 7)
pollution (water or ocean)	721	Environmental problems (code 7)
pollution (air)	722	Environmental problems (code 7)
local pollution	723	Environmental problems (code 7)
pollution (food)	740	Environmental problems (code 7)
chemicals	843	Environmental problems (code 7)
water level/ sea level	730	Environmental problems (code 7)
sea level rise	731	Environmental problems (code 7)
invasive species/killer whales	732	Environmental problems (code 7)
natural disasters (flooding, hurricanes etc)	733	Environmental problems (code 7)
changing populations of Arctic species	604	Environmental problems (code 7)
habitat changes	607	Environmental problems (code 7)
food shortages	608	Environmental problems (code 7)
extinction	609	Environmental problems (code 7)
migration	610	Environmental problems (code 7)
ocean acidification	724	Environmental problems (code 7)

fossil fuels (use of/burning)	800	Human activities causing environmental problems (code 8)
emissions (from transport) & transport/automobiles	801	Human activities causing environmental problems (code 8)
heating/cooling/lighting	802	Human activities causing environmental problems (code 8)
manufacturing/ industry/ factories/businesses	803	Human activities causing environmental problems (code 8)
energy use	850	Human activities causing environmental problems (code 8)
overharvesting	810	Human activities causing environmental problems (code 8)
overfishing	811	Human activities causing environmental problems (code 8)
hunting	812	Human activities causing environmental problems (code 8)
whaling	813	Human activities causing environmental problems (code 8)
fishing	814	Human activities causing environmental problems (code 8)
oil drilling	820	Human activities causing environmental problems (code 8)
mining	821	Human activities causing environmental problems (code 8)
oil companies	822	Human activities causing environmental problems (code 8)
oil spills	823	Human activities causing environmental problems (code 8)
oil leaking from ships	830	Human activities causing environmental problems (code 8)
human activity (generic - destructive)	860	Human activities causing environmental problems (code 8)
human activity in arctic (destructive)	840	Human activities causing environmental problems (code 8)
alternative/renewable/clean energy	900	Actions to protect Arctic (Code 9)
energy efficiency	901	Actions to protect Arctic (Code 9)
green transportation	902	Actions to protect Arctic (Code 9)
sustainable business	903	Actions to protect Arctic (Code 9)
laws/ regulation	910	Actions to protect Arctic (Code 9)
environmental laws	911	Actions to protect Arctic (Code 9)
Kyoto protocol	912	Actions to protect Arctic (Code 9)

law enforcement	913	Actions to protect Arctic (Code 9)
protecting species/ seas/ areas	914	Actions to protect Arctic (Code 9)
government incentives green tech/ cap-and-trade	940	Actions to protect Arctic (Code 9)
land management	953	Actions to protect Arctic (Code 9)
educational resource (card game)	956	Actions to protect Arctic (Code 9)
information/ awareness raising/ campaign for raising awareness	920	Actions to protect Arctic (Code 9)
education	921	Actions to protect Arctic (Code 9)
government spending on awareness raising	922	Actions to protect Arctic (Code 9)
environmentally-friendly products	923	Actions to protect Arctic (Code 9)
NGOs/ environmental organization	924	Actions to protect Arctic (Code 9)
scientific research	930	Actions to protect Arctic (Code 9)
human intervention for good (general)	950	Actions to protect Arctic (Code 9)
climate (arctic climate)	750	Climate System (Code 10)
density of air	1000	Climate System (Code 10)
sea flows/ ocean current	1001	Climate System (Code 10)
temperature	1002	Climate System (Code 10)
ocean temperature regulation	1003	Climate System (Code 10)
atmospheric gases (generic)	1004	Climate System (Code 10)
sea/ ocean	1005	Climate System (Code 10)
sunlight	1006	Climate System (Code 10)
darkness	1007	Climate System (Code 10)
time	1008	Climate System (Code 10)
seasons	1009	Climate System (Code 10)
other		Other (Code 11)
tourism	951	Other (Code 11)
tourism	842	Other (Code 11)
employment	952	Other (Code 11)
consistency	621	Other (Code 11)
mistrust of science	955	Other (Code 11)
access	925	Other (Code 11)
connectivity	926	Other (Code 11)
overpopulation	620	Other (Code 11)
consumption (Generic)	815	Other (Code 11)
trade	841	Other (Code 11)