

REACH Up Middle School (Grades 6-8) Curriculum

Theme 1 — Changing Climate (tentative lesson titles - pilot testing spring semester 2018)

Unit 1: Observing Weather

MS.1.1 Ask an Expert

MS.1.2 Vocabulary

MS.1.3 Instruments for Measuring Weather

Unit 2: Environmental Cycles

MS.2.1 Ask an Expert

MS.2.2 Vocabulary

MS.2.3 You are a Carbon Atom!

MS.2.4 The Carbon Cycle Game

MS.2.5 Does Sea Ice Prevent Hight Waves?

Unit 3: Seasonal Shifts

MS.3.1 Ask an Expert

MS.3.2 Vocabulary

MS.3.3 What is Phenology?

MS.3.4 Break Up on Two Alaskan Rivers

Theme 2 — Changing Landscapes (pilot testing spring semester 2017)

Unit 4: Thawing Permafrost

MS.4.1 Ask an Expert
Video: *Permafrost Thaw*

MS.4.2 Vocabulary

MS.4.3 Measure Lake Loss

Unit 5: Shrub Expansion

MS.5.1 Ask an Expert
Video: *Vegetation Changes*

MS.5.2 Vocabulary

MS.5.3 Quantifying Shrub Expansion

Unit 6: Coastal Erosion

MS.6.1 Ask an Expert
Video: *Coastal Erosion*

MS.6.2 Vocabulary

MS.6.3 Community Shorelines

Theme 3 — Changing Lifestyles (pilot testing fall semester 2017)

Unit 7: Impact on Infrastructure

MS.7.1 Ask an Expert
Video: *Impact on Infrastructure*

MS.7.2 Vocabulary

MS.7.3 Building an Energy Efficient House

MS.7.4 Moisture Inside a House

Unit 8: Natural Resources

MS.8.1 Ask an Expert
Video: *Impact on Energy*

MS.8.2 Vocabulary

MS.8.3 Build a Generator

Unit 9: Impact on Subsistence

MS.9.1 Ask an Expert
Video: *Impact on Subsistence*

MS.9.2 Vocabulary

MS.9.3 Physical Adaptations: Blubber!

MS.9.4 Goose Gamble