VICTORYXR™

VXR.DIRECT™

GRADE 8 EARTH & SPACE SCIENCE

Atmospheric & Oceanic Circulation

TERRESTRIAL TERRAINS

Total Unit Running Time: 25-35* minutes

FIELD TRIP: East Coast Shoreline

Running Time: 8:26
NGSS: MS-ESS2-4

Witness tidal forces and influences while standing in the surf with VictoryVR Host, Steve Grubbs. As waves lap along the shoreline, learn about the cycling of water through Earth's systems and the hydrologic cycle, too. Finally, hear about the mystery of the Lost Colony at Roanoke Island while catching the magnificent sunset along the sound.
For more information, please visit RoanokeIsland.net/history

INTERACTIVE EXPERIENCE: Boulder Roll

Running Time: Self-paced*

Learners stand atop a snowy peak on the VictoryVR Mountain as ogres charge up toward them. By rolling boulders down the hill, the ogres are vanquished, allowing students to earn more time to make it to the finish. Rolling boulders is easy, but to get enough of them to conquer the ogres, students must correctly respond to rapid-fire questions based on the unit.

THEATER 1: How Land Affects Our Weather

Running Time: 6:58
NGSS: MS-ESS2-6

Topics Covered

- Weather patterns based on geography and land formations
- Concepts of fronts, pooling, heat island, the Coriolis effect

Assessment Answer Key & Critical Thinking Skills

1. D (BT5--synthesis)
2. C (BT2--comprehension)
3. D (BT3--application)
4. B (BT2--comprehension)
5. A (BT4--analysis)

THEATER 2: The Oceans Affect Weather Everywhere

Running Time: 6:07
NGSS: MS-ESS2-6

Topics Covered

- Types and behavior of currents
- Effects of unequal heating and Earth's rotation on weather

Assessment Answer Key & Critical Thinking Skills

1. D (BT5--synthesis)
2. C (BT2--comprehension)
3. C (BT4--analysis)
4. D (BT2--comprehension)
5. D (BT1--knowledge)

TEACHER DEMO: Gorging with Wendy

Running Time: 4:01
NGSS: MS-ESS2-1, MS-ESS3-1

Topics Covered

- Concepts of plate tectonics and geologic processes
- 3 rock types distinguished
- Fossilization and marine sediments

Assessment Answer Key & Critical Thinking Skills

1. B (BT2--comprehension)
2. D (BT4--analysis)
3. D (BT4--analysis)
4. C (BT1--knowledge)
5. A (BT4--analysis)

Science Standards:

NGSS: MS-ESS2-1, MS-ESS2-4, MS-ESS2-6, MS-ESS3-1; ***TEKS:*** 8(b.2.C), 8(b.2.D), 8(b.2.E), 8(b.3.D), 8(b.7.C), 8(b.9.A), 8(b.9.B), 8(b.10.A), 8(b.10.B), 8(b.10.C); ***CPALMS:*** SC.8.E.5.9, SC.8.N.1.6, SC.8.N.4.1