

Geologic Changes

ROCKS -- JAM ON!

Total Unit Running Time: 25-35 minutes



FIELD TRIP: **Tent Rocks, NM**

Running Time: 2:03

NGSS: MS-ESS1-4, MS-ESS2-2

VVR Host, Steve Grubbs, stands amid layered rock structures at Tent Rocks National Monument as he provides a brief overview of its origin. Additionally, the concept of soil composition, as well as different types of soil are discussed, with special emphasis on decomposition. For more information visit: blm.gov/nlcs_web/sites/nm/st/en/prog/NLCS/KKTR_NM.html



INTERACTIVE EXPERIENCE: **Racing for Answers**

Running Time: Self-paced

Students are motivated to learn as they drive their virtual race car around the track. Each new lap presents a new prompt based on unit content. As they drive around the track, racers are presented with answer options. In order to tag the correct one, they move the car to the right or left lanes accordingly and run over their selection. Choosing the correct answer scores points; selecting the wrong one deducts them. Racers pick their driving speed for a comfortable pace.



THEATER 1: **Surface Changes**

Running Time: 6:25

NGSS: MS-ESS1-4, MS-ESS2-2, MS-ESS2-3

Topics Covered

- Earth's evolution
- Pangaea, continental plates

Assessment Answer Key & Critical Thinking Skills

1. C (BT1--knowledge)
2. A (BT3--application)
3. B (BT2--comprehension)
4. B (BT4--analysis)
5. D (BT5--synthesis)



THEATER 2: **Geology and Our Planet**

Running Time: 6:05

NGSS: MS-PS2-3, MS-PS2-4, MS-PS2-5

Topics Covered

- Earth's layers
- 3 rock types
- Earth's formation, fossils

Assessment Answer Key & Critical Thinking Skills

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



TEACHER DEMO: **Spelunking with Wendy**

Running Time: 6:39

NGSS: MS-ESS1-4, MS-ESS2-2

Topics Covered

- Composition of rocks
- Caves: types and formation
- Cave safety

Assessment Answer Key & Critical Thinking Skills

1. C (BT1--knowledge)
2. B (BT2--comprehension)
3. D (BT1--knowledge)
4. C (BT3--application)
5. A (BT4--analysis)

Science Standards:

NGSS: MS-ESS1-4, MS-ESS2-2, MS-ESS2-3; **TEKS:** 6(b.1.A), 6(b.2.C), 6(b.2.E), 6(b.3.B), 6(b.3.D), 6(b.5.B), 6(b.10.A), 6(b.10.B), 6(b.10.C), 6(b.10.D); **CPALMS:** SC.6.E.6.1, SC.6.E.6.2,