

I FREAK OUT ABOUT FIFTEEN MINUTES INTO READING ANYTHING ABOUT THE EARTH'S CORE WHEN I SUDDENLY REALIZE IT'S *RIGHT UNDER ME.*

# 2020 Geologic Mapping

Burgess-Shadburn Nature Center



# The Event

- **Team size:** 1-2 students
- **Time:** ~50 min
- **Materials to Bring:**
  - Binder\*\*
  - Protractor
  - Ruler
  - Colored Pencils
  - Calculator (stand alone, non-programmable)
  - ~~Geological Compass~~ (state and national only)



# Resources

- **Science Olympiad Store**
  - GeoLogic Mapping CD
  - Bio/Earth Science CD
- **Science Olympiad Student Center Wiki**
- **Your Binder!!**

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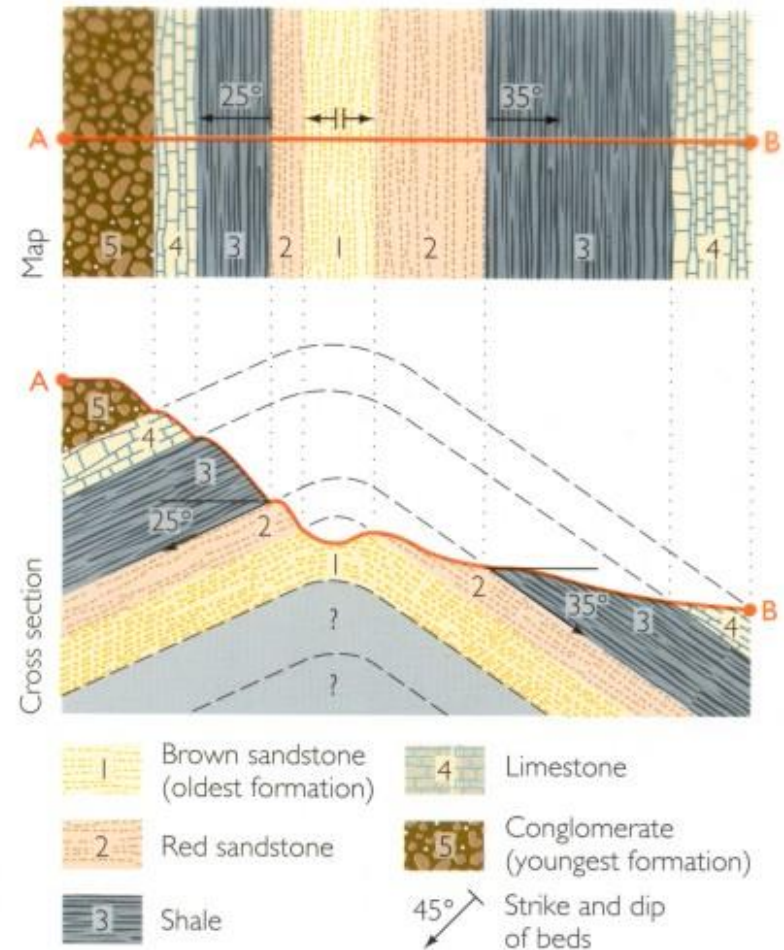
# Areas of Focus

- Standard theory, mapping, and principles (reading/ drawing maps, plate tectonics, geological structural elements, etc.)
- Pay attention to the **BOLD** text in the rules guide as those things are new this year and will get extra emphasis. (Ex. Drill cores)



# Example Question

- What type of fold does this cross section and map display?



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Figure 10.6  
Press and Siever: *Understanding Earth*





# Example Question

A “Varve” is the repeated annual deposition of sediment into a bed (usually within a lake).

*This is an example of what broader type of sedimentary bedding?*



# Questions?



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# Further Information Offered

## **Burgess-Shadbush Nature Center**

4101 River Bends Dr  
Shelby Twp, MI 48317

***Wed-Sat 10a-6p***

***Sun 12p-5p***

**(586)323-2478**

**naturecenter@shelbytwp.org**

### **Study Session:**

**Saturday, February 29**

**10:00am-12:30pm**

**\$4 per student**

**(coaches and parents welcome if  
room allows)**

**Activity # 212853-B3**

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