



BSA TROOP 77

JANUARY

2021

CAMPOUT

GEOLOGY/EXPLORATION

(FLORIDA CAVERNS)

LEADER/SCOUT

INFORMATION PACKET

JANUARY 16TH – 18TH, 2021

SNEADS, FL-MARIANNA, FL

POC: MIKE NOEL 727-453-8253

POC: DAVE DAVIS 727-871-1911

MBC: CHRISTIAN GERLACH 256-683-5743

MERIT BADGE THEME



GEOLOGY



EXPLORATION

Geology Merit Badge Counselor: Christian Gerlach, ASM
Exploration Merit Badge Counselor: Dave Davis, ASM

JANUARY 2021 CAMP OUT LOCATION

THREE RIVERS STATE PARK

7908 Three Rivers Park Road
Sneads, FL 32460
Primitive Group Campsite

CAVE EXPLORATION

Florida Caverns State Park

3345 Caverns Rd
Marianna, FL 32446

DEPARTURE POINT AND DATE / TIME

SATURDAY JANUARY 16TH, 2021 *DEPART AT 8:00 AM*
TRINITY PRESBYTERIAN CHURCH OF SEVEN SPRINGS
4651 LITTLE ROAD, NEW PORT RICHEY, FL 34655

PICKUP POINT AND DATE / TIME

MONDAY, JANUARY 18TH, 2021 *ARRIVE APPROX 3:00PM
PARENTS WILL BE NOTIFIED WHEN WE LEAVE CAMP
Trinity Presbyterian Church of Seven Springs
4651 Little Road, New Port Richey, FL 34655

ATTENDANCE

CAMPOUT LEADERSHIP (SM/ASM) CONTACT INFORMATION:

POC: MIKE NOEL 727-453-8253

POC: DAVE DAVIS 727-871-1911

SPOC: JAKE NOEL

Total Adult Leadership Camping: 6
Mike Noel, POC Phone # 727-453-8253
Dave Davis, POC #727-871-1911
Christian Gerlach, ASM #256-683-5743
Gary Burden, ASM #727-410-5254
Aihab Alhassan, ASM #727-647-3366
Shawn Vasey, ASM #727-255-4059

SCOUTS ATTENDING:

Total Scouts: 18
Jake Noel
Andreas Gerlach
Jackson Davis
Carson Davis
Cole Robinson
Elijah Reyes
Cooper Burden
Adam Alhassan
Yanni Tsiabasis
Nick Tsiabasis
Zachary Taylor
Matt Vasey
Russ Thomas
Chase O'Brien
Nicholas Clohessy
Trenton Doherty
Christopher Johnson
Ethan Williams

TRANSPORTATION:

MASKS ARE TO BE WORN IN AUTOMOBILES PER COVID-19 PRECAUTIONS

1. Mike Noel-ASM

- a. Jake Noel
- b. Trenton Doherty
- c. Zachary Taylor
- d. Cole Robinson

2. Christian Gerlach-ASM

- a. Andreas Gerlach
- b. Nick Tsiabasis
- c. Chase Obrien

3. Dave Davis-ASM

- a. Jackson Davis
- b. Carson Davis
- c. Christopher Johnson
- d. Elijah Reyes
- e. Ethan Williams

4. Shawn Vasey -ASM

- a. Matthew Vasey
- b. Russ Thomas
- c. Yanni Tsiabasis

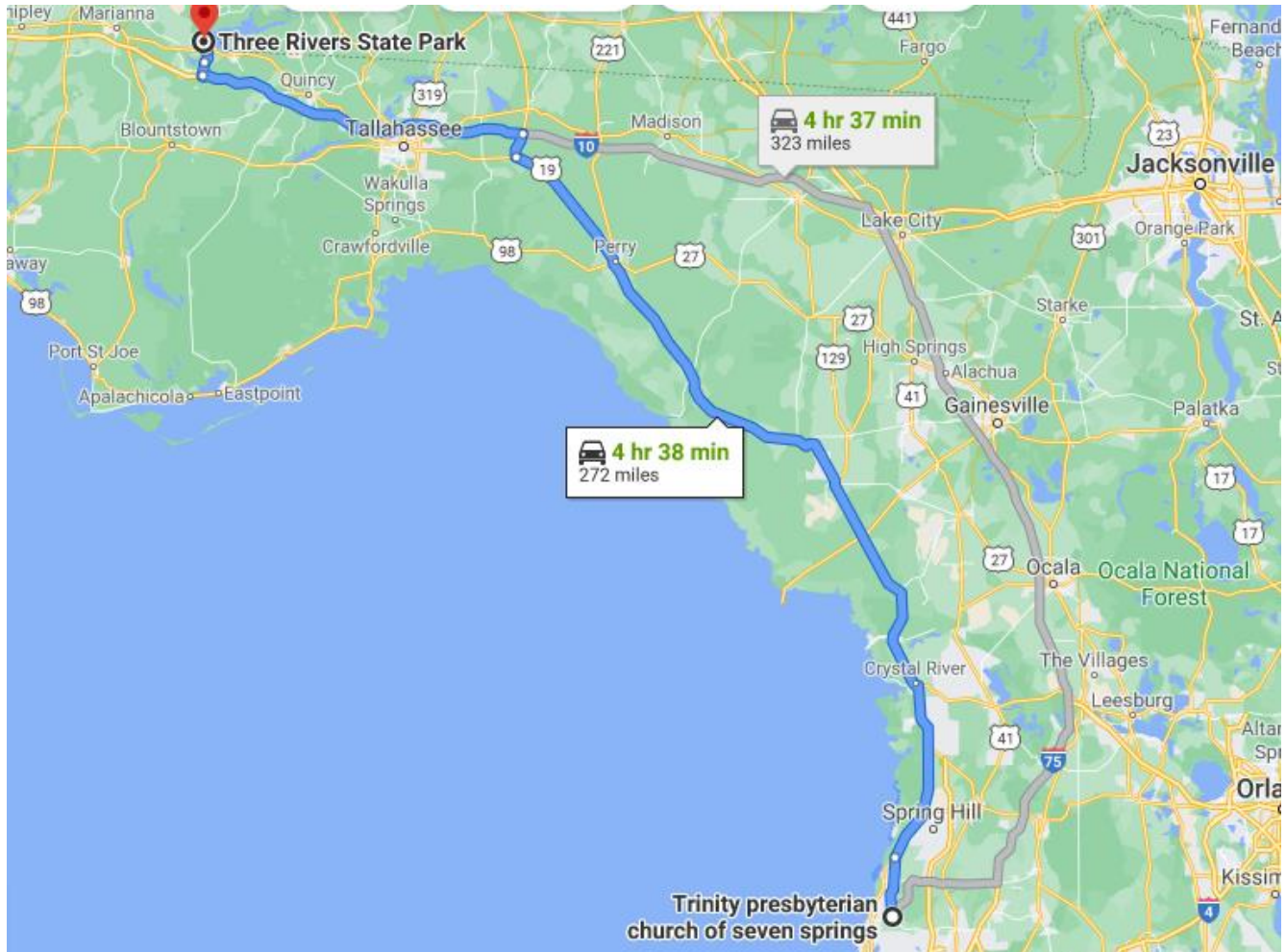
5 Gary Burden -ASM

- a. Cooper Burden
- b. ASM Aihab Alhassan
- c. Adam Alhassan
- d. Nick Clohessy

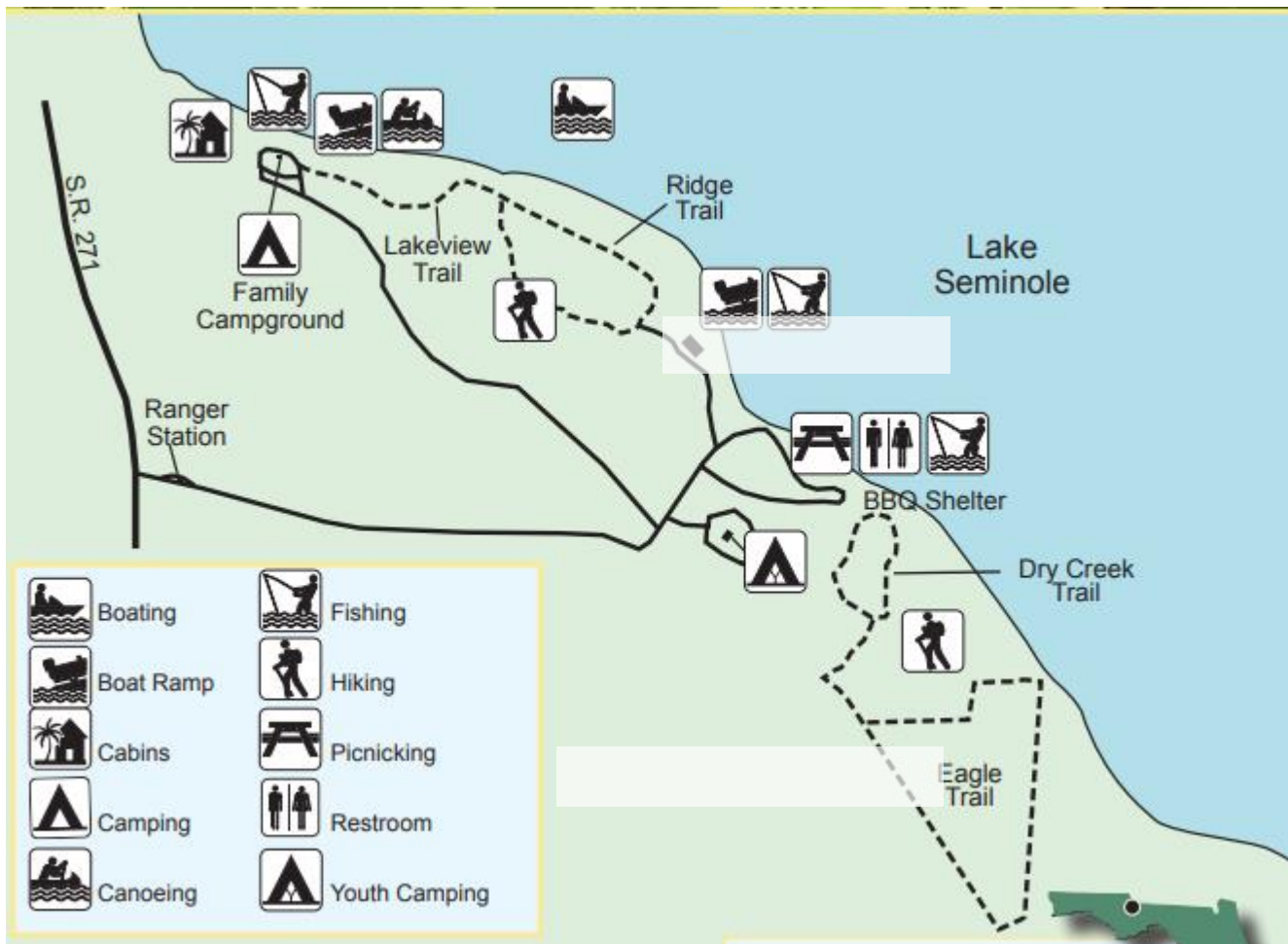
NOTE – TRANSPORTATION/SEATING SUBJECT TO CHANGE

DIRECTIONS:

MAP FROM TRINITY PRESBYTERIAN CHURCH OF SEVEN SPRINGS TO
THREE RIVERS CAMP GROUND
7908 THREE RIVERS PARK RD
SNEADS, FL32460



THREE RIVERS STATE PARK CAMPGROUND



CONTACTS: PARK MANAGER ON DUTY 850-482-9006

POC:

POC:

NEAREST TOWN:

SNEEDS, FL

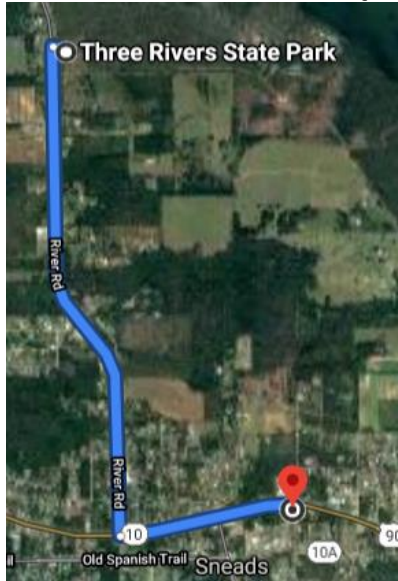
NEAREST POLICE LOCATION:

POLICE DEPARTMENT (3 MILES)

ADDRESS 2033 3RD AVE, SNEADS, FL 32460

ANY EMERGENCY 911

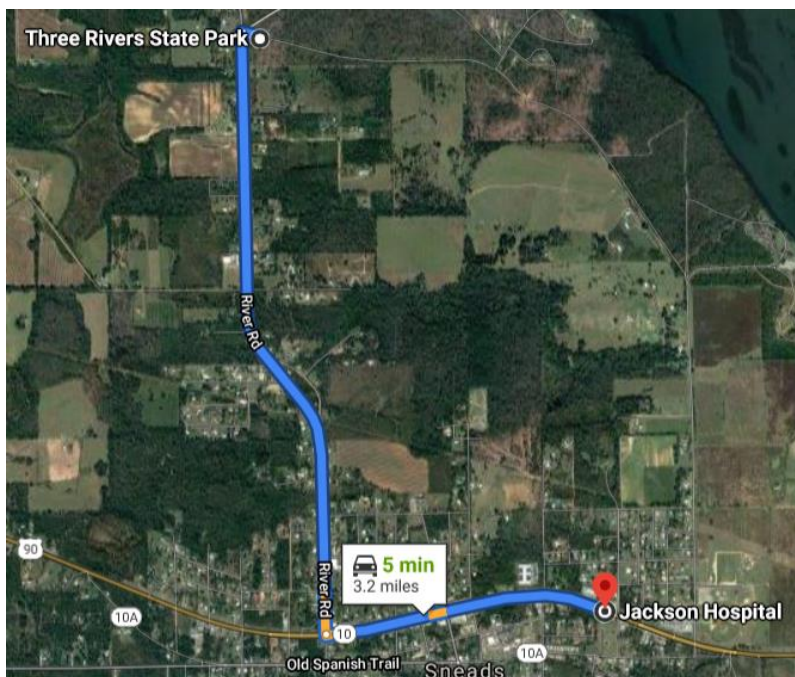
NON-EMERGENCY # TO REQUEST A DEPUTY: 850-593-6403



NEAREST MEDICAL FACILITY:

Jackson Hospital

7999 US-90, Sneads, FL 32460



SPECIAL NOTE: WE WILL NEED TO BE AWARE OF TIME CHANGES BETWEEN EASTERN/CENTRAL TIME ZONES

AGENDA:

Saturday, January 16th, 2021

Breakfast at home

7:30 am Loading trailer and vehicles

8:00 am – Leave Church: Approx. travel time 4 hours 45 minutes

Lunch on the road, \$10-15

2:00 pm – Set up camp

3-5:00 - Sign offs, troop games, new scout skills/chits

5:00 Prepare dinner and eat

9:15 pm – Cracker Barrel

11:00 pm – Lights out

Sunday, January 17th, 2021

6:30 am – Cooks up to prep/cook breakfast

7:00 am – Scouts up Breakfast

8:30 am- Leave for Caverns (must be at the caverns by 9:15 am or they will cxl reservation)

We will have 2 tours, 1 at a time, to split our group into. Masks are required.

9:00 am – 12:00pm – Caverns

12:00pm-return to Campground

12:30 pm- 2:00pm - Prepare/Eat Lunch.

2:00 pm – 5:30pm- Service Project for State Park

6:00 pm – Prepare/Eat Dinner

8:00 pm - Games / Rank Sign offs / Merit Badge work.

9:30 pm – Cracker Barrel

11:00 pm – Lights Out

Monday, January 18th, 2021

7:00 am – Scouts up / Pack-up Site

8:00 am – Eat Breakfast

8:30 am – Thorns and Roses

9:00 am – Leave for Church

Lunch On The Road \$10-15

3:00 pm – Arrive at Church

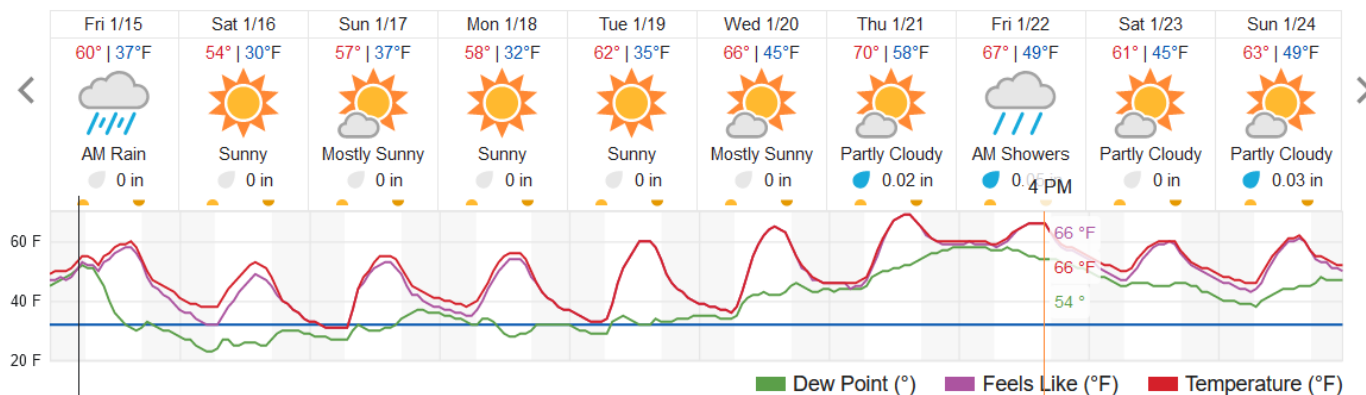
*** We will notify parents of departure time.**

TENT ASSIGNMENTS: (BY SPL)

Bring a small tent to sleep individually or with a sibling if wanted. If you need to borrow a tent, there are plenty available between the troop equipment and other scouters.

WEATHER: MAY BY COLD, PACK ACCORDINGLY!!

- As of 01/15/2021



MEALS:

Troop Menus:

Viking:

Sat Dinner: Chicken Tenders
 Sat CB: Bananas
 Sun Break: Bacon, Egg, Cheese Sandwiches
 Sun Lunch: Ham/Turkey Sandwiches, Chips, Apples
 Sun Dinner: Sloppy Joes
 Sunday CB: Smores
 Monday Break: Poptarts

Scorpion:

Sat Dinner: Hamburgers, Hotdogs, Cesar Salad.
 Sat CB: Smores
 Sun Break: Bacon, Egg, Cheese Sandwiches
 Sun Lunch: Grilled Chicken Sandwiches, Oreos
 Sun Dinner: Tacos, French Fries
 Sunday CB: Choc. Dump Cake
 Monday Break: Lucky Charms/Fruit Loops

Lightning:

Sat Dinner: Hamburgers, Hotdogs, Strawberries
 Sat CB: Smores
 Sun Break: Bagles w/ Cream Cheese
 Sun Lunch: Turkey Sandwiches, Chips
 Sun Dinner: Fried Chicken, Mac N Cheese
 Sunday CB: Oreos
 Monday Break: Pop Tarts, Grapes

ADULTS PROVIDING MEALS:

Saturday Lunch – On the road \$10-15
 Saturday Dinner – Aihab
 Saturday Cracker Barrel – Christian
 Sunday Breakfast – Gary
 Sunday Lunch-
 Sunday Dinner- Dave
 Sunday Crackerbarrel- Mike
 Monday Breakfast-
 Monday Lunch-On the Road \$10-15

DUTY ROSTER: (BY SPL)

	Friday CB	Saturday Breakfast	Saturday Lunch	Saturday Dinner	Saturday CB	Sunday Breakfast
SITE CLEANUP	N/A					Everyone
FIRE						N/A
WATER						N/A
Meals						
Dishes						
Service	N/A	Everyone	Everyone	Everyone	N/A	N/A

MEALS – Cook assigned meal for all scouts.

DISHES – Heat water and Clean dishes for assigned meal.

SITE CLEANUP – Pick Up & Discard any trash in the camp site.

FIRE – Gather firewood and start fires. Care for and refuel. Put out fire.

WATER – Get drinking water and all water needed for any fires.

SERVICE – Service project(s) as chosen by the Camp Ranger.

PACKING LIST:

**(NOTE: THERE IS A SHOWER
HOUSE AT THE CAMPGROUND)**

Troop Equipment List

- Tarps/Tents
- Hand soap/sanitizer
- Propane
- Lanterns/Jump Box/Charge Cables
- Ice Chest/Jugs and Gatorade mix
- Food
- Cooking Equipment
- Duct Tape
- First Aid Kit
- Axe/Rope
- Garbage Bags
- Troop Banner, Patrol Flags, Troop Flag
- BSA Medical Forms and Copy of Insurance Cards
- Dry Fire Wood

SCOUT PACKING LIST

- BSA Field Uniform – (class A)
- BSA Activity Uniform – (class B)
- Sweatshirt (*cool nights*)
- Hiking Boots or sneakers
- Scout Hat
- Backpack
- Sleeping Bag: warm version & pillow
- Sleeping Mat
- Personal First Aid kit
- Sunscreen
- Insect Repellent
- Rain Gear
- Camp Chair
- Shower Towel

- Shower Sandals
- Toiletries – soap, deodorant, toothpaste, toothbrush, etc
- Flashlight/Lantern/Headlamp
- Mess Kit
- Camelback/Water Bottle
- Merit Badge Booklets
- Scout Handbook
- Pens/Pencils/Paper
- Money for Lunch Stops, To And From The Camp.
- Warm clothes, temperatures may be chilly.
- Rain gear(jackets/pancho/umbrella/etc)
- Masks, Bring masks for the ride and cavern tour.

Optional Items:

- Camera (not a mobile device)
- Book of Faith
- Pocket Knife
- Fire'm Chit Card & Totin' Chip Card
- Rope
- Medications
- Sunglasses
- Hammock
- Watch
- Fishing gear if desired
- Extra masks

**NOTE: Label EVERYTHING with
your name!**



THREE RIVERS STATE PARK

The pristine Lake Seminole stands central in this delightful corner of north Florida where three rivers converge

Welcome to Three Rivers State Park

Where Florida meets the southwest corner of Georgia, the Chattahoochee and Flint rivers converge to form Lake Seminole, the setting for this peaceful park.

Looking around the landscape, visitors might catch sight of fox squirrels, white-tailed deer, gray foxes or many species of native and migratory birds. Campers can launch from a boat ramp to enjoy some of the best freshwater fishing in the state, or fish from a 100-foot pier in the camping area. A quaint picnic area with tables and grills overlooks the lake.

For overnight visitors, a modern cabin and full-facility campgrounds (no sewer hook-up; dump station only) are available near the lake.

The park continues to recover from the effects of Hurricane Michael.



FLORIDA CAVERNS STATE PARK

Adventure underground and explore the geological beauty of Florida's caverns

Welcome to Florida Caverns State Park

Cool air, the sound of dripping water, a visual array of mystifying stalactites, stalagmites, flowstones and draperies - this is what greets visitors when they explore the otherworldly depths of Florida Caverns.

Florida Caverns offers visitors a rarity in the state, a chance to explore stunning caves. While moving between the large underground rooms, one can observe the many chisel marks made by 1930s-era Civilian Conservation Corps workers.

These hard-working men enlarged the cave passageways by hand so visitors could stand upright during the guided tours. They also built the park's spacious visitor center.

We are excited to welcome everyone back to visit the awe-inspiring splendor of Florida Caverns State Park!

Geology Merit Badge Requirements

1. Define geology. Discuss how geologists learn about rock formations. In geology, explain why the study of the present is important to understanding the past.
2. Pick three resources that can be extracted or mined from Earth for commercial use. Discuss with your counselor how each product is discovered and processed.
3. Review a geologic map of your area or an area selected by your counselor, and discuss the different rock types and estimated ages of rocks represented. Determine whether the rocks are horizontal, folded, or faulted, and explain how you arrived at your conclusion.
4. Do ONE of the following:
 - (a) With your parent's and counselor's approval, visit with a geologist, land-use planner, or civil engineer. Discuss this professional's work and the tools required in this line of work. Learn about a project that this person is now working on, and ask to see reports and maps created for this project. Discuss with your counselor what you have learned.
 - (b) Find out about three career opportunities available in geology. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.
5. Do ONE of the following (a OR b OR c OR d):

(a) Surface and Sedimentary Processes Option

- (1) Conduct an experiment approved by your counselor that demonstrates how sediments settle from suspension in water. Explain to your counselor what the exercise shows and why it is important.
- (2) Using topographical maps provided by your counselor, plot the stream gradients (different elevations divided by distance) for four different stream types (straight, meandering, dendritic, trellis). Explain which ones flow fastest and why, and which ones will carry larger grains of sediment and why.
- (3) On a stream diagram, show areas where you will find the following features: cut bank, fill bank, point bar, medial channel bars, lake delta. Describe the relative sediment grain size found in each feature.
- (4) Conduct an experiment approved by your counselor that shows how some sedimentary material carried by water may be too small for you to see without a magnifier.
- (5) Visit a nearby stream. Find clues that show the direction of water flow, even if the water is missing. Record your observations in a notebook, and sketch those clues you observe. Discuss your observations with your counselor.

(b) Energy Resources Option

- (1) List the top five Earth resources used to generate electricity in the United States.
- (2) Discuss source rock, trap, and reservoir rock—the three components necessary for the occurrence of oil and gas underground.
- (3) Explain how each of the following items is used in subsurface exploration to locate oil or gas: reflection seismic, electric well logs, stratigraphic correlation, offshore platform, geologic map, subsurface structure map, subsurface isopach map, and cores samples and cuttings samples.
- (4) Using at least 20 data points provided by your counselor, create a subsurface structure map and use it to explain how subsurface geology maps are used to find oil, gas, or coal resources.
- (5) Do ONE of the following activities:
 - (a) Make a display or presentation showing how oil and gas or coal is found, extracted, and processed. You may use maps, books, articles from periodicals, and research found on the internet (with your parent's permission). Share the display with your counselor or a small group (such as your class at school) in a five-minute presentation.
 - (b) With your parent's and counselor's permission and assistance, arrange for a visit to an operating drilling rig. While there, talk with a geologist and ask to see what the geologist does onsite. Ask to see cutting samples taken at the site.

(c) Mineral Resources Option

- (1) Define rock. Discuss the three classes of rocks including their origin and characteristics.
- (2) Define mineral. Discuss the origin of minerals and their chemical composition and identification properties, including hardness, specific gravity, color, streak, cleavage, luster, and crystal form.
- (3) Do ONE of the following:
 - (a) Collect 10 different rocks or minerals. Record in a notebook where you obtained (found, bought, traded) each one. Label each specimen, identify its class and origin, determine its chemical composition, and list its physical properties. Share your collection with your counselor.
 - (b) With your counselor's assistance, identify 15 different rocks and minerals. List the name of each specimen, tell whether it is a rock or mineral, and give the name of its class (if it is a rock) or list its identifying physical properties (if it is a mineral).
- (4) List three of the most common road-building materials used in your area. Explain how each material is produced and how each is used in road building.
- (5) Do ONE of the following activities:
 - (a) With your parent's and counselor's approval, visit an active mining site, quarry, or sand and gravel pit. Tell your counselor what you learned about the resources extracted from this location and how these resources are used by society.
 - (a) With your counselor, choose two examples of rocks and two examples of minerals. Discuss the mining of these materials and describe how each is used by society.
 - (b) With your parent's and counselor's approval, visit the office of a civil engineer and learn how geology is used in construction. Discuss what you learned with your counselor.
 - (c)

(d) Earth History Option

- (1) Create a chart showing suggested geological eras and periods. Determine which period the rocks in your region might have been formed.
- (2) Explain the theory of plate tectonics.
- (3) Explain to your counselor the processes of burial and fossilization, and discuss the concept of extinction.
- (4) Explain to your counselor how fossils provide information about ancient life, environment, climate, and geography. Discuss the following terms and explain how animals from each habitat obtain food: benthonic, pelagic, littoral, lacustrine, open marine, brackish, fluvial, eolian, protected reef.
- (5) Collect 10 different fossil plants or animals OR (with your counselor's assistance) identify 15 different fossil plants or animals. Record in a notebook where you obtained (found, bought, traded) each one. Classify each specimen to the best of your ability, and explain how each one might have survived and obtained food. Tell what else you can learn from these fossils.
- (6) Do ONE of the following:
 - (a) Visit a science museum or the geology department of a local university that has fossils on display. With your parent's and counselor's approval, before you go, make an appointment with a curator or guide who can show you how the fossils are preserved and prepared for display.
 - (b) Visit a structure in your area that was built using fossiliferous rocks. Determine what kind of rock was used and tell your counselor the kinds of fossil evidence you found there.
 - (c) Visit a rock outcrop that contains fossils. Determine what kind of rock contains the fossils, and tell your counselor the kinds of fossil evidence you found at the outcrop.
 - (d) Prepare a display or presentation on your state fossil. Include an image of the fossil, the age of the fossil, and its classification. You may use maps, books, articles from periodicals, and research found on the internet (with your parent's permission). Share the display with your counselor or a small group (such as your class at school). If your state does not have a state fossil, you may select a state fossil from a neighboring state.