



## **Sustainability Merit Badge**

**with Mr. Glenn Prickett from Troop 673**

gprickett@verizon.net, 202/368-2431

1. Scouts can complete all requirements during October.
2. Scouts will participate in two virtual (Zoom) group meetings, one all together at the beginning of the month (Oct 5) and one in small groups at the end.
  - a. First group mtg for all scouts Monday, October 5, 7:30-9:00pm: complete requirements #1; #2 COMMUNITY A, ENERGY A; and #3; and discuss how to complete all other requirements.
  - b. Second meeting in small groups (6 max) to complete all other requirements. Three options: Oct 27, 28 or 29, 7:00-9:00pm
3. Before the first meeting, scouts must complete the work for requirements #1; #2 COMMUNITY A, ENERGY A; and #3 and be prepared to share notes and sketches of their work, ideally in an online file (i.e. PowerPoint, Word). Scouts must also review all requirements and be prepared to participate actively in group discussion.
4. Maximum number of scouts: 18.



## **Environmental Science MB**

**with Mr. Mark Renne from Troop 1570**

scoutdadmr@netscape.net, 703/787-9409

1. Scouts will complete requirements 1 and 2 through group discussions during October.
2. Scouts will complete requirements 3-6 after completing independent projects/research and follow-up discussion with the counselor. Some of this can be completed in October, but most likely will be past October.
3. Scouts will participate in two virtual (Zoom) group meetings, plus individual telephone conversations:
  - a. Group session to review requirements, and discuss requirements 1 and 2, and to discuss how to complete requirements 5, and 6.
  - b. Group session to discuss requirement 3 projects/activities and requirement 4 outdoor study.
  - c. Individual discussion with each Scout for requirements 3-6.
4. Sessions: October 4th 4:00-5:00pm and October 11th 4:00-5:00pm
5. Before the first session, Scouts must have reviewed all of the requirements and be prepared to discuss requirements 1 and 2 as a group.
5. Maximum number of Scouts: 10



## Communication MB

with Mr. David Rockwell from Troop 1570

dave.rockwell.email@gmail.com

1. Scouts will participate in four virtual group meetings:
  - a. Wednesday, October 7 at 6:00-7:00pm – Requirement 1 (Good Listener, Good Leader), homework Requirements 2, 4 and 5
  - b. Wednesday, October 14 at 6:00-7:00pm – Requirement 3 (How to give a 5 Minute Speech) and 6 (Teaching Aids & Props), homework Requirement 3 (and 5 if not yet done)
  - c. Wednesday, October 21 at 6:00-7:00pm – Requirements 6, 7 and 9 (Active Communication & Program Planning)
  - d. Wednesday, October 28 at 6:00-7:00pm – Requirement 8 (Careers in Communication)
2. Some requirements will be completed independently
3. Maximum number of Scouts: 12



## Family Life MB

with Mr. Brad Case from Troop 20

bcase808@gmail.com, 703/288-1899

1. Scouts will complete requirements 1, 2, 4, 5, 6, and 7 during October
2. Scouts will complete requirement 3 after October by sending an email to Mr. Case with their three-month chore log.
3. Scouts will participate in two virtual (Zoom) group meetings, plus individual telephone conversations on three topics:
  - a. Group meeting to complete requirements 1, 2, and 7, and to discuss how to complete requirements 4, 5, and 6.
  - b. Group meeting to review and approve each Scout's proposal for completing requirements 4 and 5 (projects).
  - c. Individual discussion of each Scout's project for requirement 4.
  - d. Individual discussion of each Scout's project for requirement 5.
  - e. Individual discussion of each Scout's family meeting for requirement 6.
4. There will be two opportunities: one on Sunday afternoons, one on Tuesday evenings.
  - Opportunity 1: October 4th 5:00-6:00pm and October 11th 5:00-6:00pm
  - Opportunity 2: October 6th 7:00-8:00pm and October 13th 7:00-8:00pm
5. Before the first session, Scouts must have thought about requirements 1, 2, and 7 AND BE PREPARED TO CONTRIBUTE TO THE DISCUSSION.
6. Maximum number of Scouts: 11 in each opportunity (22 total).



## Chess MB

with Mr. Roger Claff from Troop 1570

claff@api.org, 703/401-0762

1. Requirements 4b, 4c, 4d, 4e, 4f, 5a, 5b, 5c will be completed across the computer screen.
2. Requirements 1, 2a, 2b, 3a, 3b, 3c, 4a, 5d, and 6a require Scouts to complete work outside of the virtual sessions:
  - a. 1, 2a, and 2b will be completed by Scouts reading/researching and responding by e-mail.
  - b. 3a, 3b, and 3c require Scouts to teach chess to someone who does not know how to play.
  - c. 4a requires demonstration of chess notation, completed simultaneously with 5d and 6a.
  - d. 5d requires solving five chess problems and sending by e-mail the answers in chess notation.
  - e. 6a requires playing three games against an opponent, recording all moves in chess notation, e-mailing the three games, and receiving my review/analysis of the games.
3. The group will meet four times:
  - a. Tuesday, October 6 7-9:30pm to cover Chess Basics
  - b. Tuesday, October 13 7-9:30pm to cover Chess Tactics
  - c. Tuesday, October 20 7-9:30pm to cover Chess Strategy
  - d. Tuesday, October 27 7-9:30pm to cover Chess Opening and Endgame Play
4. No prerequisites. Scouts should obtain and read the merit badge booklet, but they need not do so before the first group session.
5. Note: virtual sessions involve lots of screen sharing, as chess games and move sequences are played out on chess engines available on the internet.
6. Maximum number of Scouts: 15



## Nuclear Science MB

with Mr. Michael Monaco from Troop 160

michaelmonaco@mac.com, 703/472-0293

Virtual meetings will be scheduled individually with each Scout.



## Energy MB

with Mr. Martin Heinze from Troop 673

[martin\\_heinze@hotmail.com](mailto:martin_heinze@hotmail.com), 703/349-0404

1. Scouts will complete all requirements.
2. Four 1-hour meetings:
  - a. Friday, October 2 7:30-8:30pm
  - b. Friday, October 9 7:30-8:30pm
  - c. Friday, October 16 7:30-8:30pm
  - d. Friday, October 23 7:30-8:30pm
3. Before the first meeting, Scouts (with a parent's permission) should use the internet to find a blog, podcast, website, or an article on the use or conservation of energy. Scouts should be prepared to deliver a <2-minute speech on the main points of the article, blog post or podcast during the meeting.
4. Before the third meeting, Scouts will need to purchase and build a solar kit of some kind; the most common solar kit is a solar car which can easily be found for <\$5.00.
5. Scouts will need to conduct an energy audit of their home and keep a 14-day energy log outside of group meeting time
6. Maximum number of Scouts: 12



## Plumbing MB

with Mr. Barry Dresdner of Troop 157

[bdresdner@verizon.net](mailto:bdresdner@verizon.net), 301/332-3690

1. Scouts will complete requirements 1 a,b,c, 2 a,b, 3, 4, 5 during October
2. Scouts will complete requirements 6, 7, 8 a, b before, after, and/or during October. Counselor will require a note from the Scoutmaster or qualified adult leader verifying completion of the requirements.
3. Scouts will participate in two virtual (Zoom) group meetings:
  - a. Wednesday, October 7 at 6:30-7:30pm
  - b. Wednesday, October 14 at 6:30-7:30pm
4. Mr. Dresdner will offer one other opportunity to meet, scheduled around the needs of the scouts.
5. Maximum number of scouts: 25.
6. Note: Extreme caution must be used when completing Requirements 6, 7 and 8 (especially requirement 7). Do not attempt Requirement 7 without the supervision of a knowledgeable adult.



## Music MB

**with Mr. Todd Bolick, Powhatan District Executive**  
todd.bolick@scouting.org, 703/314-8866

1. Scouts will be able to complete the whole merit badge, as long as they do the pre-requisites.
2. Scouts will meet once on Tuesday, October 20, 5-7pm
3. Scouts should have a copy of the Music Merit Badge book and review it before our class.
4. Please e-mail Mr. Bolick at [todd.bolick@scouting.org](mailto:todd.bolick@scouting.org) and copy your parent/guardian by noon on Sunday, Oct. 18 and let him what instrument you play or if you sing so I can choose a simple piece for you to play for requirement 1.
5. Have your illustration for requirement 2 ready.
6. Decide which two parts of requirement 3 you will be doing and be prepared to discuss and show evidence.
7. Decide which part of requirement 4 you will be doing and be prepared to share/demonstrate it.
8. Study requirement 5.
9. Maximum number of Scouts: 6

The Music merit badge will have Scouts learn about the art of music, musical performance, and how to create music. It is a fun merit badge where the Scouts can get creative and demonstrate their musical knowledge and talent. The merit badge is intended for Scouts who are currently or formerly involved in a musical performing art but someone who is new to musical performance could take it, with lots of at home practice and study before the MB class.



## Photography MB

**with Mr. Tom Scott from Troop 1257**  
tomkscott@gmail.com, 703/801-7659

1. Scouts will review requirements 1, 2, 3, 8 in class.
2. Scouts will need to do 4, 5, 6 and 7 on their own, and share the work with Mr. Scott.
3. Scouts will participate in two virtual group meetings:
  - a. October 8, 7:30-8:30pm
  - b. October 15, 7:30 to 8:30pm
4. Each scout should try to bring some type of camera - even a smart phone - to the first meeting
5. Maximum number of Scouts: 24



## Fingerprinting MB

with Mr. Ken Feng from Troop 55

kenfeng22@gmail.com, 703/994-6012

1. Scouts will complete requirements 1, 2, and 3 during October
2. Scouts will complete requirement 4 after October by sending an image of their fingerprints on homemade fingerprint cards to Mr. Feng via email or other electronic medium.
3. Scouts will participate in two virtual (Zoom) group meetings, plus individual telephone conversations on three topics:
  - a. Group meeting to complete requirements 1 and 2, and to discuss how to complete requirements 4.
  - b. Group follow-on meeting to review and approve each Scout's efforts in completing requirements 4.
  - c. Individual discussion of each Scout's project for requirement 4.
  - d. Individual discussion of each Scout's knowledge for requirement 5.
4. There will be two opportunities, one on Sunday afternoons and one on Tuesday evenings:
  - a. Opportunity 1: October 4th 5:00-6:00pm and October 11th 5:00-6:00pm
  - b. Opportunity 2: October 6th 7:00-8:00pm and October 13th 7:00-8:00pm
5. Before the first session, Scouts must have thought about requirements 1, 2, and 3 AND BE PREPARED TO CONTRIBUTE TO THE DISCUSSION.
6. Maximum number of Scouts: 11 in each opportunity (22 total).



## Programming MB

with Ms. Katherine Scott from Troop 1257

kscott90@gmail.com, 703/298-2901

1. Scouts will complete requirements 1b, 2, 3, 4, and 6 during October
2. Scouts will complete requirement 5 after October and send pictures of the code and results for 5 a, b, c and the write-ups for 5d to Mrs. Scott.
3. Scouts will participate in two one-hour virtual (Zoom) group meetings:
  - a. October 14, 7:00-8:00 pm
  - b. October 21, 7:00-8:00 pm
4. Before the first session, Scouts must demonstrate they have a current cyber chip for requirement 1a (they can send a picture of the completed requirement from the Scout handbook).

Maximum number of Scouts: 15



## Entrepreneurship MB

with Mr. Juris Kelley from Troop 1970  
kelley@theqmax.com, 571/581-4762

1. Scouts will be able to complete all requirements, assuming completion of pre reqs and homework
2. Scouts will participate in two virtual (Zoom) group meetings
3. There will be two separate opportunities: one on Sunday afternoons and one on Tuesday evenings
  1. Opportunity 1: October 4th 5:00-6:00pm and October 18th 5:00-6:00pm
  2. Opportunity 2: October 6th 6:30-7:30pm and October 20th 6:30-7:30pm
4. Requirements 1 and 4 will need to be completed prior to the start of class and will be discussed during the first session
5. Requirements 5 and 6 will be assigned as homework after the first session and will be due at the second session. An electronic copy of the MB book and workbook will be provided
6. Maximum number of Scouts: 11 in each opportunity (22 total)



## Art MB

with Mrs. Harpreet Kachroo from Troop 1983  
hrkachroo@gmail.com, 571/269-1833

Virtual meetings will be scheduled individually with each Scout.



## Metalwork MB

with Mr. Art Pence from Troop 1018  
artpence@yahoo.com, 571/294-7527

Plans are being finalized. At least one requirement will need to be completed in a face-to-face meeting after October.



## Scholarship MB

with Mr. Michael Monaco from Troop 160  
michaelmonaco@mac.com, 703/472-0293

Virtual meetings will be scheduled individually with each Scout.

## **Notes for All Badges**

Please have your Scoutmaster or Advancement Coordinator approve your Merit Badge in Scoutbook.com and connect you with the Merit Badge Counselor so the MBC can approve your Merit Badge there. If your Scoutmaster or Advancement Coordinator has difficulty with this, please ask them to contact Mr. Brad Case at [merit-badges@powhatan-scouting.org](mailto:merit-badges@powhatan-scouting.org).

At least one parent, guardian, or adult leader will need to be present for every Zoom meeting. If your parent, guardian, or adult leader can attend, please send a message to Mr. Brad Case at [merit-badges@powhatan-scouting.org](mailto:merit-badges@powhatan-scouting.org). Remember to copy that adult on your e-mail.

## **Other Badges?**

If you would like to earn a merit badge not shown in this catalog, please talk to your Scoutmaster or Advancement Coordinator and ask them to contact Mr. Brad Case at [merit-badges@powhatan-scouting.org](mailto:merit-badges@powhatan-scouting.org).