

Merit Badge	Day/Time	Category	Sessions	Location	Criteria	Addl Fee	Lead Counselor	Pre-Requisitions
American Business	W 3:15-6:00pm	MB In a Day	1	VFW	13+ Yrs. Old	No	Frank Gramieri	Review MB Worksheet and be prepared to answer questions. Must Read MB Book prior to session. Bring Req. 6 (a) choose one area of business and identify three career opportunities. Research education, training and experience required.
Architecture	M 3:15-6:00pm	MB In a Day	1	Virtual	None	No	Frank Gramieri	Review MB Worksheet and be prepared to answer questions. Must Read MB Book prior to session. Prepare as PDF 3c Interview someone as the client as if you were the architect and write up the program list of requirements to design their homer business, Req. 4 Draw to scale a room in their homes showing doors, windows, built-in cabinets etc
Astronomy	W-F 7:00-9:00pm	MB in a Week	3	VFW	None	No	Dave Rishel	Borrow or bring a small telescope or a pair of binoculars (better choice). Some are available to borrow. Req. 4c: Sketch the big dipper. Reqs. 6a & b: Sketch the moon face and its phases. [Note, full moon is on July 4 and 5]. Moon Phases Calendar for July 2020 - Calendar-12.com Optional, there are some really good smartphone apps that help you find constellations. One is called StarWalk.
Aviation	W 7:00-9:00pm	Kick-Starter	1	Big Top	None	No	Dave Outcalt Larry Patrick	Read MB Book pages 14-31 How Airplanes Work. Aviation Field Trip to be Scheduled at a later date.
Basketry	M 1:00pm-1:45pm Safety Classroom. Open Time to complete Project.	MB in a Week	1 + Open Time	VFW Craft Area	None	\$10 Kit	Ken Hogan	One Classroom and use Open time reserved or use free time to complete 3 Projects. Kit will be supplied. Can start badge on other days, but must attend saety instruction first.
Camping	W-F 8:45-10:15am	MB in a Week	3	Big Top	Min. 15 Nights Camping	Yes. Food.	Bill Nath	Have at least 15 nights (20 required to complete MB) of camping since joining Scouts BSA. Only 1 summer camp trip is allowed to count towards total. Scoutbook Camping Logs will be checked prior to Blast.
Communication 1	M 7:00-9:00pm	Kick-Off 90-Day	1 +	Virtual	None	No	Bob Krajci	Complete req. 1a prior to event.
Communication 2	W 7:00-9:00pm	Kick-Off 90-Day	1 +	Virtual	None	No	Bob Krajci	Complete req. 1a prior to event.
Cooking 1	T 7:00-9:00pm	Kick-Off 90-Day	1 +	Virtual	None	No	Bob Krajci	None.
Cooking 2	Th 7:00-9:00pm	Kick-Off 90-Day	1 +	Virtual	None	No	Bob Krajci	None.
Cycling	Pre-Blast. TBD	Two Weeks	7 +	Off-Sites	None	No	Bill Nath	None.
Electricity	M-T 7:00-9:00pm	MB in a Week	2	Big Top	None	No	Bill Nath	Home Safety Inspection Sheet: To be discussed in Session 2
Emergency Preparedness	Th 3:15-6:00pm	MB In a Day	1	Big Top	None	No	Ted Klitus	Req. 1 Need to have earned First Aid MB or be in the process of earning at the Blast. Pre-reqs: 2 a & b—first five, plus 5 elective emergencies. At Blast: 3, 4, 5, 6, 8. Pre- or Post-Blast: Reqs. 2c, 7, 9
Enrepreneurship	Th 3:15-6:00pm	MB In a Day	1	VFW	None	No	Frank Gramieri	Review MB Worksheet and be prepared to answer questions. Must Read MB Book prior to session. Bring Reqs. 4 List ideas for businesses select three and talk about why you think they would be successful, Req. 5a(1) describe a business you would like to start and the product / service it would offer, Req. 5b(1) identify the people who would buy your product / service
Environmental Science	June 29 4:15-5:45pm Off-Site M & W 4:15-5:45pm	MB in a Week	3	1 Off-Site + 2 Virtual	None	No	Padma Chivukula	Req. 3d(3): Photograph an area affected by erosion if possible. Scouts may choose one of the two requirements for 3e(Endangered Species). Req. 3e(1): Do research and write a 100 word report on one endangered species and what is being done to preserve it -OR- 3e(2): Do research and write a 100 word report on one species that was Endangered or Threatened but which has now recovered. Use the following link for their research on endangered species https://www.pgc.pa.gov/Wildlife/EndangeredandThreatened/Pages/default.aspx Req 6: Read / research 3 career opportunities in environmental science and discuss your findings.
Family Life	F 9:00-9:45am	Kick-Off 90-Day	1	VFW 1	14 yrs. old.	No	Becky Bewtra	None.
Fingerprinting 1	T 3:15-4:00pm	MB In An Hour	1	Big Top	None	No	Dave Iannacone	None.
Fingerprinting 2	Sa 5:00-5:45	MB In An Hour	1	VFW	None	No	Dave Iannacone	None.
Fire Safety 1	Th 10:15-1:00pm	MB In a Day	1	VFW	None	No	Dave Outcalt Dave Rishel	Read pages 26-32. Req. 6a & b Bring the following to the first meeting: Written fire escape plan. A diagram of your home showing the location of any four extinguishers and smoke alarms you have. Field Trip to Firehouse at Session.
Fire Safety 2	F 3:15-6:00pm	MB In a Day	1	VFW	None	No	Dave Outcalt Dave Rishel	Read pages 26-32. Req. 6a & b Bring the following to the first meeting: Written fire escape plan. A diagram of your home showing the location of any four extinguishers and smoke alarms you have. Field Trip to Firehouse at Session.
First Aid 1	M-F 1:15-2:00pm	MB in a Week	5	Big Top	None	No	Ted Klitus	Req. 5 Bring Home First Aid Kit
First Aid 2	T 3:15-6:00pm	MB In a Day	1	Big Top	None	No	Ted Klitus	Req. 5 Bring Home First Aid Kit

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Fishing	M 4:15-7:00pm	MB in a Week	1-3 Days	VFW + Off-Site	None	No	Sam Codispoti	Requires Cooking time and Open Fishing. If a Scout doesn't already own a fishing rod, we recommend the purchase of the Zebco 202 Spincast Combo Kit from Dicks Sporting Goods. Cost is \$21.99 and it comes with fishing tackle. Do requirements 1 & 6 in the workbook http://usscouts.org/mb/worksheets/Fishing.pdf
Geocaching 1	M 4:15-6:00pm	MB In a Day	1-3 Days	Big Top + Off-Site	None	No	Ken Hogan	Must have Mobile device with Google Maps App or GPS Device. Requires local trip into Yardley Borough to locate Geocaches. Will need to complete a Geo-Hunt and locate Geopatches within Blast Site Locations.
Geocaching 2	W 4:15-6:00pm	MB In a Day	1-3 Days	Big Top + Off-Site	None	No	Ken Hogan	Must have Mobile device with Google Maps App or GPS Device. Requires local trip into Yardley Borough to locate Geocaches. Will need to complete a Geo-Hunt and locate Geopatches within Blast Site Locations.
Golf 1	T 8:45am-1:15pm	MB In a Day	1	VFW + Off-Site	None	Yes. \$10-\$35	Dave Outcalt Sam Codispoti	Read pgs. 52-54 Safety/First Aid and pgs. 59-63 Conduct/Procedures. Round of Golf will be played at an off-site location. Greens Fees are extra cost. Scouts should bring Golf Clubs or ask to borrow clubs.
Golf 2	W 8:45am-1:15pm	MB In a Day	1	VFW + Off-Site	None	Yes. \$10-\$35	Dave Outcalt Sam Codispoti	Read pgs. 52-54 Safety/First Aid and pgs. 59-63 Conduct/Procedures. Round of Golf will be played at an off-site location. Greens Fees are extra cost. Scouts should bring Golf Clubs or ask to borrow clubs.
Graphic Arts	Th 9:00-10:15am	MB In a Day	1	Virtual	None	No	Ken Hogan	Req. 3 Design a T10 Summer Blast T-Shirt. Req. 7 3-Career Ops.
Kayaking 1	F 9:00am+	MB In a Day	1	Falls Township Lake	BSA Swim Test	No	Steve Brown	BSA Swim Test Required. Scouts need to attend Classroom session prior to in-water practice and tests. Please bring Kayak or request to borrow from Troop Family
Kayaking 2	Sa 9:00am+	MB In a Day	1	Falls Township Lake	BSA Swim Test	No	Steve Brown	BSA Swim Test Required. Scouts need to attend Classroom session prior to in-water practice and tests. Please bring Kayak or request to borrow from Troop Family
Mammal Study	F 3:15-4:45	MB In a Day	1+	Big Top	None	No	Michael Moyer	Pre-requirements: 1, 3 a, b, or c. At Blast: 2, 4e (virtual museum visit). Post-Blast: 5 (project)
Music 1	Th 5:00-6:00pm	Kick Starter	1+	VFW	None	No	Joe Sheridan	Read pgs. 14 – 21 of Music MB book, and then complete req. 2 in the workbook (the list and the drawing)
Music 2	F 5:00-6:00pm	Kick Starter	1+	Big Top	None	No	Joe Sheridan	Read pgs. 14 – 21 of Music MB book, and then complete req. 2 in the workbook (the list and the drawing)
Painting	Th 9:00-10:15am Classroom + Open Time	MB In a Day	1	VFW Craft Area	None	No	Ken Hogan	Classroom for Safety. Paint Project can be done at home or can arrange at Blast.
Personal Mangement	M 9:00am-12:00pm	Kick-Off 90-Day	1	Virtual	Had 1-Yr. School Algebra	No	John Celentano	Read MB book in its entirety and be prepared to discuss all of the requirements.
Pioneering	M 8:45am-10:15am, T, W,Th: 4:15-5:45	MB in a Week	4	Big Top	None	No	Bill Nath	None.
Programming	M-F 9:00-10:15am	MB in a Week	5	Virtual	Must have PC	No	Hongze Wang	Updated Cyber Chip. 1 yr. Exp. Access to a laptop or PC (Windows 10 preferred, MacBook acceptable but Scout needs to have the experience using a Mac), Attend the prep-meeting(s) to setup programming environment. TBD
Sports & Athletics	M-Th 2:15-3:00pm	Kick-Off 90-Day	4	VFW	None	No	Steve Brown	Most classroom work can be applied to both badges. The 90-day activities must be separate for each badge and it is ok to choose just one
Weather	M-F 10:30-11:15am	MB in a Week	5	Big Top	None	No	Jim Rea	Req. 9A Make one of the following instruments: Weather vane, anemometer, rain gauge, or hygrometer. Keep a daily log for one week using information from the instrument and other sources to record the following information the same time every day: wind direction and speed, temperature, precipitation, and types of clouds. Compare your results to the forecast for the day. Read MB Book Sections concerning dangerous weather and types of clouds.
Wilderness Survival 1	M 8:45-10:30am Classroom + M-W Open time to build shelter. Overnight W or Th	MB in a Week	1 + Open Time	VFW	None	No	Mickey Ingles	One classroom session and then need to build personal shelter for overnight. Requires overnight Wed. or Thurs. [Rain Date]
Wilderness Survival 2	T 8:45-10:30am Classroom + M-W Open time to build shelter. Overnight W or Th	MB in a Week	1 + Open Time	VFW			Mickey Ingles	One classroom session and then need to build personal shelter for overnight. Requires overnight Wed. or Thurs. [Rain Date]
Woodcarving	M 11:15am-12:00pm Safety Classroom. Open Time to complete Project.	MB in a Week	1 + Open Time	VFW Craft Area	Totin' Chip	No	Ken Hogan	One Classroom Session, then use Open time reserved [or free time] to complete Project. Kit will be supplied. Can start badge on other days, but must attend safety instruction first. Must have Supervision present when using carving tools.