SUSTAINABILITY MERIT BADGE WORKBOOK

This Scoutmaster Bucky Merit Badge Workbook is based off the current Scouts BSA Requirements.

Consider also using the Sustainability merit badge class preparation page for clarification and expections when participating in a Scoutmaster Bucky merit badge opportunity (online or in-person).

https://scoutmasterbucky.com/merit-badges/sustainability/

Scout's Name:
REQUIREMENT 1: Before starting work on any other requirements for this merit badge, write in your own words the meaning of <i>sustainability</i> . Explain how you think conservation and stewardship of our natural resources relate to sustainability. Have a family meeting, and ask family members to write down what they think sustainability means. Be sure to take notes. You will need this information again for requirement 5.
REQUIREMENT 2: Do the following:
Water. Do A AND either B OR C
REQUIREMENT 2 A: Develop and implement a plan that attempts to reduce your family's water usage. As a family, discuss water usage. To aid in your discussion, if past water bills are available, you may choose to examine a few. As a family, choose three ways to help reduce water consumption. Implement those ideas for one month. Share what you learn with your counselor, and tell how you think your plan affected your family's water usage.

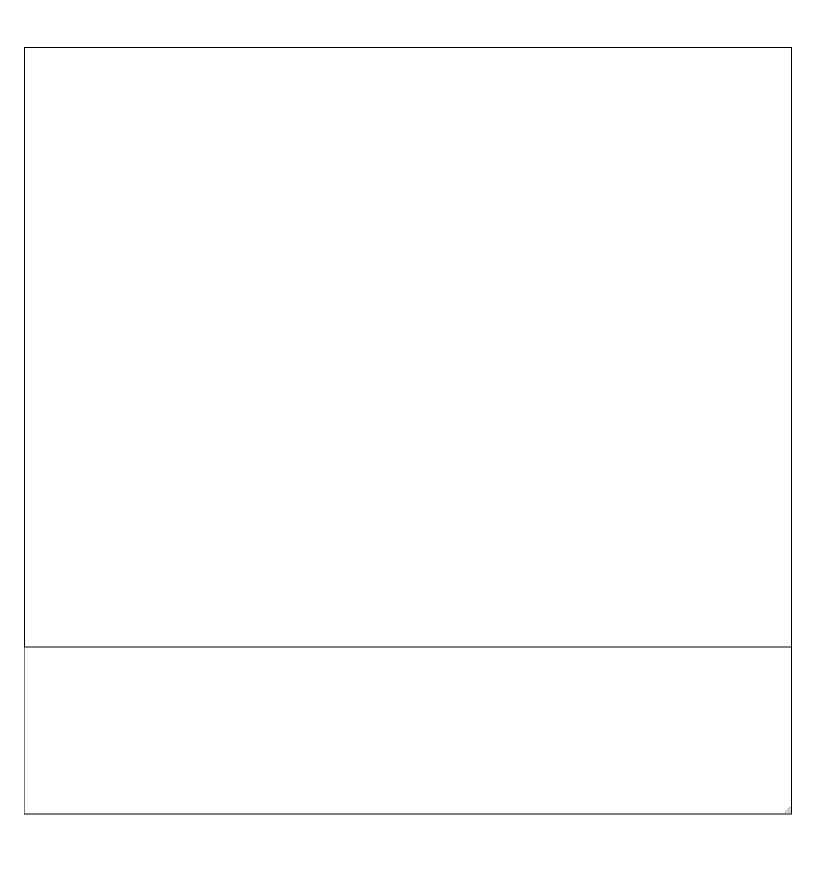
REQUIREME	NT 2 B: Using	g a diagram yo	u have created	d, explain to y	our counselor l	now your housel	nold gets its clean
water from a bathroom, an	natural source d laundry drai	and what happ	pens with the worder to the contract of the co	vater after you	use it. Include	water that goes	down the kitchen, s to preserve your
Select B OR C	2						

REQUIREMENT 2 C: Discuss with your counselor two areas in the world that have been affected by drought over the last three years. For each area, identify a water conservation practice (successful or unsuccessful) that has been used. Tell whether the practice was effective and why. Discuss what water conservation practice you would have tried and why.
Select B OR C
Food. Do A AND either B <i>OR</i> C.
REQUIREMENT 2 A: Develop and implement a plan that attempts to reduce your household food waste. Establish a baseline and then track and record your results for two weeks. Report your results to your family and counselor.
REQUIREMENT 2 B: Discuss with your counselor the ways individuals, families, and communities can create their own food sources (potted plants, family garden, rooftop garden, neighborhood or community garden). Tell how this plan might contribute to a more sustainable way of life if practiced globally.
Select B OR C

	t the availability of food and food production in diff stainability of worldwide food supplies.
elect B <i>OR</i> C	

REQUIREMENT 2 A: Draw a rough sketch depicting how you would design a sustainable community. Share your sketch with your counselor, and explain how the housing, work locations, shops, schools, and transportation systems affect energy, pollution, natural resources, and the economy of the community.

Community. Do A AND either B OR C.



REQUIREMENT 2 B: With your parent's permission and your counselor's approval, interview a local architect, engineer,
contractor, or building materials supplier. Find out the factors that are considered when using sustainable materials in
renovating or building a home. Share what you learn with your counselor.
Select B OR C
PEOLIDEMENT 2 C. Daview a current begging needs accessment for your town gity, county, or state Discuss with your
REQUIREMENT 2 C: Review a current housing needs assessment for your town, city, county, or state. Discuss with your counselor how birth and death rates affect sufficient housing, and how a lack of housing—or too much housing—can influence the sustainability of a local or global area.
Select B OR C
Energy. Do A AND either B <i>OR</i> C.
REQUIREMENT 2 A: Learn about the sustainability of different energy sources, including fossil fuels, solar, wind, nuclear, hydropower, and geothermal. Find out how the production and consumption of each of these energy sources affects the
environment and what the term "carbon footprint" means. Discuss what you learn with your counselor, and explain how
you think your family can reduce its carbon footprint.

REQUIREMENT 2 B: Develop and implement a plan to reduce the consumption of one of your family's household utilities that consume energy, such as gas appliances, electricity, heating systems, or cooling systems. Examine your family's bills for that utility reflecting usage for three months (past or current). As a family, choose three ways to help reduce consumption and be a better steward of this resource. Implement those ideas for one month. Share what you learn with your counselor, and tell how your plan affected your family's usage.
Select B OR C
REQUIREMENT 2 C: Evaluate your family's fuel and transportation usage. Review your family's transportation-related bills (gasoline, diesel, electric, public transportation, etc.) reflecting usage for three months (past or current). As a family, choose three ways to help reduce consumption and be a better steward of this resource. Implement those ideas for one month. Share what you learn with your counselor, and tell how your plan affected your family's transportation habits.
Select B OR C
Stuff. Do A AND either B <i>OR</i> C.
REQUIREMENT 2 A: Keep a log of the "stuff" your family purchases (excluding food items) for two weeks. In your log, categorize each purchase as an essential <i>need</i> (such as soap) or a desirable <i>want</i> (such as a DVD). Share what you learn with your counselor.

REQUIREMENT 2 C: Discuss with your counselor how having too much "stuff" affects you, your family, and your community. Include the following: the financial impact, time spent, maintenance, health, storage, and waste. Include in your discussion the practices that can be used to avoid accumulating too much "stuff." Select B OR C
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Select B OR C
REQUIREMENT 3: Do the following:
REQUIREMENT 5. Do the following.
REQUIREMENT 3 A: Explain to your counselor how the planetary life-support systems (soil, climate, freshwater, atmospheric, nutrient, oceanic, ecosystems, and species) support life on Earth and interact with one another.

REQUIREMENT 3 B: Tell how the harvesting or production of raw materials (by extraction or recycling), along with distribution of the resulting products, consumption, and disposal/repurposing, influences current and future sustainability thinking and planning.
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REQUIREMENT 4: Explore TWO of the following categories. Have a discussion with your family about the two you select. In your discussion, include your observations, and best and worst practices. Share what you learn with your counselor.
REQUIREMENT 4 A: Plastic waste. Discuss the impact plastic waste has on the environment (land, water, air). Learn about the number system for plastic recyclables, and determine which plastics are more commonly recycled. Find out what the trash vortex is and how it was formed.
REQUIREMENT 4 B: Electronic waste. Choose three electronic devices in your household. Find out the average lifespan of each, what happens to these devices once they pass their useful life, and whether they can be recycled in whole or part. Discuss the impact of electronic waste on the environment.

REQUIREMENT 4	4 C: Food waste.	earn about the value	e of composting and	d how to start a co	ompost pile. Sta	rt a compost
		on. Tell what can be				
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REQUIREMENT 4	4 D: Species decli	ine. Explain the terr	n species (plant or	animal) decline. I	Discuss the hun	nan activities
that contribute t	n species decline	what can be done	to help reverse th	ne decline and i	its impact on a	sustainable
environment.	o species decime,	What can be done	to help reverse ti	ic accinic, and i	its impact on t	Justamable
environment.						
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		ribute to putting Ear				
three human acti	vities that may cont	ribute to putting Ear	th at risk, now and i	n the future.		a period of at
REQUIREMENT	vities that may cont	ge. Find a world mag	th at risk, now and i	n the future.	ure change for a	
REQUIREMENT A least 100 years.	4 F: Climate changes Share this map with	ge. Find a world map	o that shows the pand discuss three fa	n the future. ttern of temperat ctors that scienti	ure change for a	ct the global
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REQUIREMENT 5: Do the following:
REQUIREMENT 5 A: After completing requirements 1 through 4, have a family meeting. Discuss what your family has learned about what it means to be a sustainable citizen. Talk about the behavioral changes and life choices your family can make to live more sustainably. Share what you learn with your counselor.
REQUIREMENT 5 B: Discuss with your counselor how living by the Scout Oath and Scout Law in your daily life helps promote sustainability and good stewardship.
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REQUIREMENT 6: Learn about career opportunities in the sustainability field. Pick one and find out the education, training, and experience required. Discuss what you have learned with your counselor and explain why this career might interest you.