



Scoutmaster Bucky

INVENTING

Merit Badge Workbook

This Workbook has been developed to help aid in organizing notes and references while working on the Inventing Merit Badge Requirements.

Visit www.ScoutmasterBucky.com for more information

SCOUT'S INFORMATION	MERIT BADGE COUNSELOR INFORMATION
Name _____	Name _____
Phone _____	Address _____
Organization _____	City State Zip _____
WORKBOOK INFORMATION	Phone _____
Scoutmaster Bucky Workbook based off of <i>Boy Scout Requirements – 2011 Edition</i>	Mobile _____
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REQUIREMENT 1: IN YOUR OWN WORDS, DEFINE INVENTING.



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REQUIREMENT 1A:

EXPLAIN TO YOUR MERIT BADGE COUNSELOR THE ROLE OF INVENTORS AND THEIR INVENTIONS IN THE ECONOMIC DEVELOPMENT OF THE UNITED STATES.



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REQUIREMENT 1B: LIST THREE INVENTIONS AND STATE HOW THEY HELPED HUMANKIND.

Invention #1:

How this invention helped humankind:

Invention #2:

How this invention helped humankind:

Invention #3:

How this invention helped humankind:



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DO ONE OF THE FOLLOWING (2A OR 2B) IN REQUIREMENT 2

REQUIREMENT 2A: IDENTIFY AND INTERVIEW WITH A BUDDY (AND WITH YOUR PARENT'S PERMISSION AND MERIT BADGE COUNSELOR'S APPROVAL) AN INDIVIDUAL IN YOUR COMMUNITY WHO HAS INVENTED A USEFUL ITEM. REPORT WHAT YOU HAVE LEARNED TO YOUR COUNSELOR.

Person to interview:

Name of your Buddy who will be working with you:

Notes:

_____	_____
Counselor's Name	Phone
_____	_____ <input type="checkbox"/> approved
Counselor's Signature	Date
_____	_____
Parent's Name	Phone
_____	_____ <input type="checkbox"/> approved
Parent's Signature	Date



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REQUIREMENT 2B: READ ABOUT THREE INVENTORS.

Inventor #1:

Inventor #2:

Inventor #3:

REQUIREMENT 2B: SELECT THE ONE YOU FIND MOST INTERESTING AND TELL YOUR COUNSELOR WHAT YOU LEARNED.

Inventor you selected:

Notes:



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REQUIREMENT 3: DO EACH OF THE FOLLOWING:

REQUIREMENT 3A: DEFINE THE TERM INTELLECTUAL PROPERTY.

Notes:

REQUIREMENT 3A: EXPLAIN WHICH GOVERNMENT AGENCIES OVERSEE THE PROTECTION OF INTELLECTUAL PROPERTY...

Notes:

REQUIREMENT 3A: ...THE TYPES OF INTELLECTUAL PROPERTY THAT CAN BE PROTECTED...

Notes:



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REQUIREMENT 3A: ...HOW SUCH (INTELLECTUAL) PROPERTY IS PROTECTED...

Notes:

REQUIREMENT 3A: ...WHY PROTECTION IS NECESSARY.

Notes:

REQUIREMENT 3B: EXPLAIN THE COMPONENTS OF A PATENT...

Notes:



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REQUIREMENT 3B:

...AND THE DIFFERENT TYPES OF PATENTS AVAILABLE.

Notes:

REQUIREMENT 3C:

EXAMINE YOUR SCOUTING GEAR AND FIND A PATENT NUMBER ON A CAMPING ITEM YOU HAVE USED. WITH YOUR PARENT'S PERMISSION, USE THE INTERNET TO FIND OUT MORE ABOUT THAT PATENT.

Notes:



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REQUIREMENT 3C:

COMPARE THE FINISHED ITEM WITH THE CLAIMS AND DRAWINGS IN THE PATENT.
REPORT WHAT YOU LEARNED TO YOUR COUNSELOR.

Notes:

REQUIREMENT 3D:

EXPLAIN TO YOUR COUNSELOR THE TERM PATENT INFRINGEMENT.

Notes:



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REQUIREMENT 4: DISCUSS WITH YOUR COUNSELOR THE TYPES OF INVENTIONS THAT ARE APPROPRIATE TO SHARE WITH OTHERS, AND EXPLAIN WHY.

Notes:

REQUIREMENT 4: TELL YOUR COUNSELOR ABOUT ONE NONPATENTED OR NONCOPYRIGHTED INVENTION AND ITS IMPACT ON SOCIETY.

Notes:



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REQUIREMENT 5:

CHOOSE A COMMERCIALY AVAILABLE PRODUCT THAT YOU HAVE USED ON AN OVERNIGHT CAMPING TRIP WITH YOUR TROOP. MAKE RECOMMENDATIONS FOR IMPROVING THE PRODUCT, AND MAKE A SKETCH THAT SHOWS YOUR RECOMMENDATIONS. DISCUSS YOUR RECOMMENDATIONS WITH YOUR COUNSELOR.

Notes:



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REQUIREMENT 6: THINK OF AN ITEM YOU WOULD LIKE TO INVENT THAT WOULD SOLVE A PROBLEM FOR YOUR FAMILY, TROOP, CHARTERED ORGANIZATION, COMMUNITY, OR A SPECIAL-INTEREST GROUP. THEN DO EACH OF THE FOLLOWING, WHILE KEEPING A NOTEBOOK TO RECORD YOUR PROGRESS.

What you will Invent:

REQUIREMENT 6A: TALK TO POTENTIAL USERS OF YOUR INVENTION AND DETERMINE THEIR NEEDS.

Needs:

REQUIREMENT 6A: THEN, BASED ON WHAT YOU HAVE LEARNED, WRITE A STATEMENT DESCRIBING THE INVENTION AND HOW IT WOULD HELP SOLVE A PROBLEM.

Statement:



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REQUIREMENT 6A: THIS STATEMENT SHOULD INCLUDE DETAILED SKETCH OF THE INVENTION.

Sketch:



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REQUIREMENT 6B:

CREATE A MODEL OF THE INVENTION USING CLAY, CARDBOARD, OR ANY OTHER READILY AVAILABLE MATERIAL. LIST THE MATERIALS NECESSARY TO BUILD A PROTOTYPE OF THE INVENTION.

Notes:

REQUIREMENT 6C:

SHARE THE IDEA AND THE MODEL WITH YOUR COUNSELOR AND POTENTIAL USERS OF YOUR INVENTION. RECORD THEIR FEEDBACK IN YOUR NOTEBOOK.

Feedback:



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REQUIREMENT 7:

BUILD A WORKING PROTOTYPE OF THE ITEM YOU INVENTED FOR REQUIREMENT 6. **(BEFORE YOU BEGIN BUILDING THE PROTOTYPE, YOU MUST HAVE YOUR COUNSELOR'S APPROVAL, BASED ON THE DESIGN AND BUILDING PLANS YOU HAVE ALREADY SHARED).**

Counselor's Name

Phone

Counselor's Signature

Date

approved

Notes:



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REQUIREMENT 7:

TEST AND EVALUATE THE INVENTION. AMONG THE ASPECTS TO CONSIDER IN YOUR EVALUATION ARE COST, USEFULNESS, MARKETABILITY, APPEARANCE, AND FUNCTION.

Notes:



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REQUIREMENT 7: DESCRIBE HOW YOUR ORIGINAL VISION AND EXPECTATIONS FOR YOUR INVENTION ARE SIMILAR OR DISSIMILAR TO THE PROTOTYPE YOU BUILT.

Notes:



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REQUIREMENT 7: HAVE YOUR COUNSELOR EVALUATE AND CRITIQUE YOUR PROTOTYPE.

Counselor's Name

Phone

Counselor's Signature

Date

approved

Counselor's Notes:



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DO ONE OF THE FOLLOWING (8A OR 8B) IN REQUIREMENT 8

REQUIREMENT 8A: PARTICIPATE WITH A CLUB OR TEAM (ROBOTICS TEAM, SCIENCE CLUB, OR ENGINEERING CLUB) THAT BUILDS A USEFUL ITEM.

Club or Team Name

Leader's Name

Phone

Leader's Signature

Date

approved

REQUIREMENT 8A: SHARE YOUR EXPERIENCE WITH YOUR COUNSELOR.

Notes:



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REQUIREMENT 8B: VISIT A MUSEUM OR EXHIBIT DEDICATED TO AN INVENTOR OR INVENTION, AND CREATE A PRESENTATION OF YOUR VISIT TO SHARE WITH A GROUP SUCH AS YOUR TROOP OR PATROL.

Place of Visit

Inventor or Invention

Notes:



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REQUIREMENT 9:

DISCUSS WITH YOUR COUNSELOR THE DIVERSE SKILLS, EDUCATION, TRAINING, AND EXPERIENCE IT TAKES TO BE AN INVENTOR.

Skills:

Education:

Training:

Experience:

Notes:



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REQUIREMENT 9: DISCUSS HOW YOU CAN PREPARE YOURSELF TO BE CREATIVE AND INVENTIVE TO SOLVE PROBLEMS AT HOME, IN SCHOOL, AND IN YOUR COMMUNITY.

At Home:

In School:

In your Community:

REQUIREMENT 9: DISCUSS THREE CAREER FIELDS THAT MIGHT UTILIZE THE SKILLS OF AN INVENTOR.

Career Field #1:

Notes:

Career Field #2:

Notes:

Career Field #3:

Notes: