White Mountain National Forest

Junior Forest Ranger Activity Book







Drawn by Marek Bennett in collaboration with White Mountain National Forest Staff



WELCOME TO YOUR

White Mountain National Forest

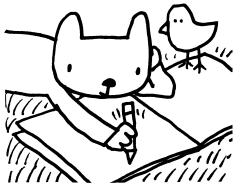
This Junior Forest Ranger Activity Book will help you discover some of the fascinating and fun things about a national forest. Together with an adult, a friend or even by yourself you can complete activities in this book to earn a Junior Ranger patch! (See "How to Use This Book," below.)

As you complete this book, we wish you good luck, lots of forest fun, and some White Mountains discoveries of your own...

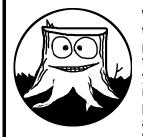


Enjoy your national forests!
Sincerely,
the WMNF Junior Ranger team.

HOW TO USE THIS BOOK:



- 1) Complete as many pages as your age in this book.
- 2) **Bring this book** to any WMNF Visitor Center or District Office.
- 3) **Ask a ranger** to check your pages, then fill out & sign your Junior Forest Ranger Certificate (on the inside back cover).
- 4) Be sure to fill out the **feedback form** (also on the inside back cover) & return it as directed in the form.



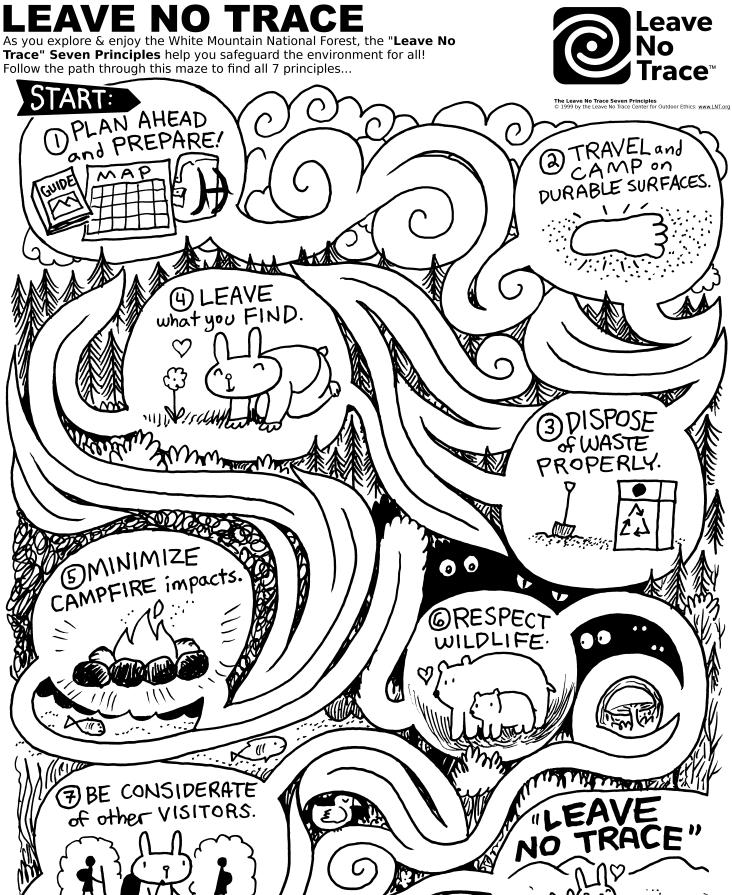
Whenever you see "Stumpy" in this book, that's your invitation to play "Stump the Ranger!" Just follow the extra directions, then show your work to a forest ranger to receive a special sticker (or other prizes, as available). If you can't find a ranger, you can test out your "stumpwork" on your friends & family.

The White Mountain National Forest Junior Forest Ranger Activity Book / VERSION 2019.09.18

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Marek Bennett www.MarekBennett.com



hikeSafeRMOOSE!

Help Moose pack the "hikeSafe" Ten Essential Items needed for a safe hike!
Draw a line from each backpack clue
(left) to the correct essential item in
Moose's too-big packing list (right):



www.hikesafe.com

1. This helps you find directions... especially NORTH!

- 2. Helps you find the right trails.
- 3. In case you need more layers.
- 4. Handy tool for cutting, marking, etc.
- 5. In case you're still hiking when night falls.
- 6. In case you get hungry or thirsty.
- 7. In case of weather surprises.
- 8. Helps you make a loud, piercing signal for help.
- 9. In case of injury.
- 10. In case you need to start a campfire.

ball
binoculars
camera
cards
CD player
compass

compass
food & water
first aid kit
flashlight
frisbee
guitar
hair dryer
hammock
makeup
map
matches
nametags

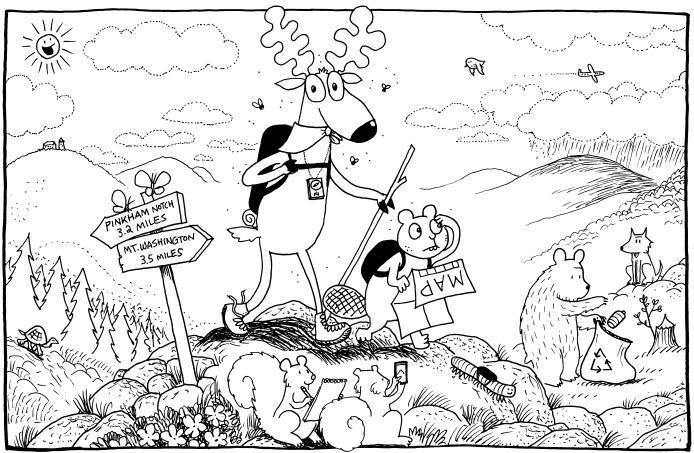
pocket knife
popcorn popper
rain/wind gear
recipe book
stilts
sunglasses
umbrella

vacuum cleaner warm clothing

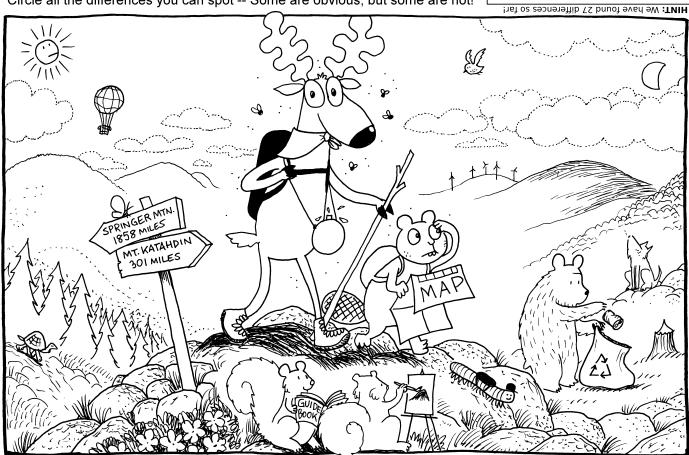
whistle

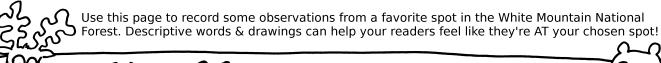
yo-yo

STUMP A RANGER: What "Essential Item" (or items) would *you* add to Moose's packing list? Make up your own clue(s) & see if a ranger can guess your items!



These two hiking pictures seem identical, but they actually have more than 20 differences. Circle all the differences you can spot -- Some are obvious, but some are not! How many differences can you find? Write your total here:





My Nature Journal



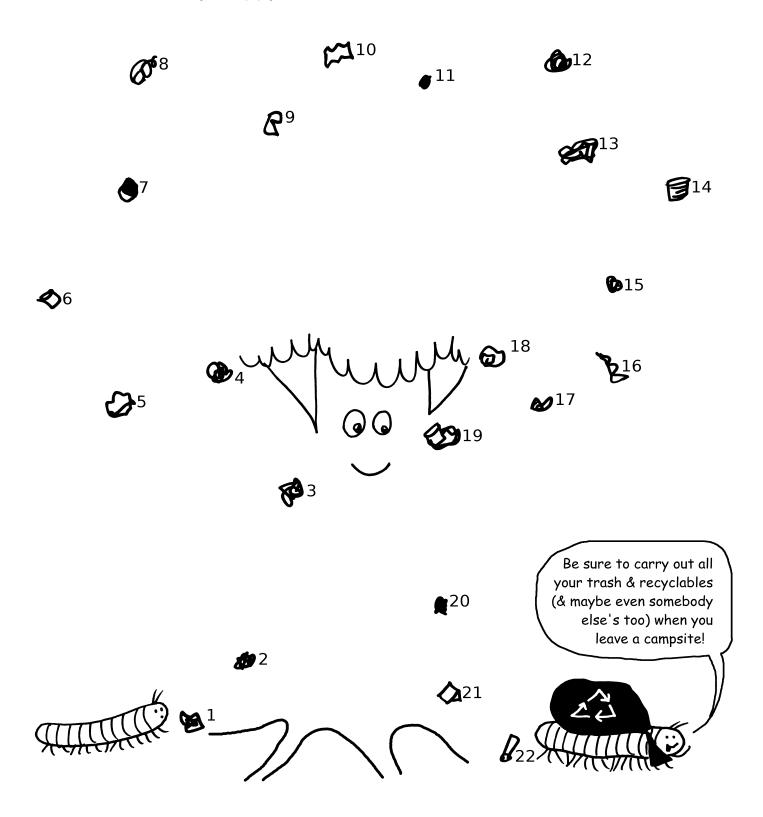
TODAY'S DATE: _____

THE SEASON IS: spring / summer / fall / winter				
THE WEATHER IS:				
THE TEMPERATURE IS:°F /°C				
MY LOCATION IS:				
OBSERVATIONS:				
SKETCH SOME DETAILS YOU NOTICE IN YOUR ENVIRONMENT:				

BONUS: Visit the WMNF website for an extra page showing you how to draw "Nature Journal Comics"!

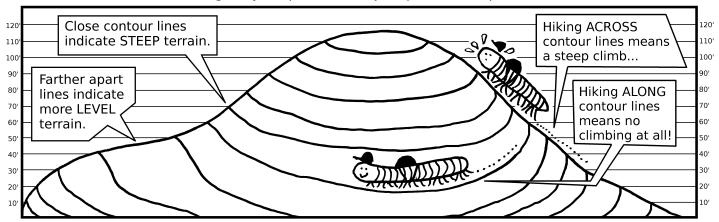
CAMPSITE CLEAN-UP CONNECT THE DOTS

Help Centi the centipede clean up her campsite by collecting all the little bits of litter! Connect each piece of "micro-trash" in order from #1-22 to leave behind a healthy, happy forest...

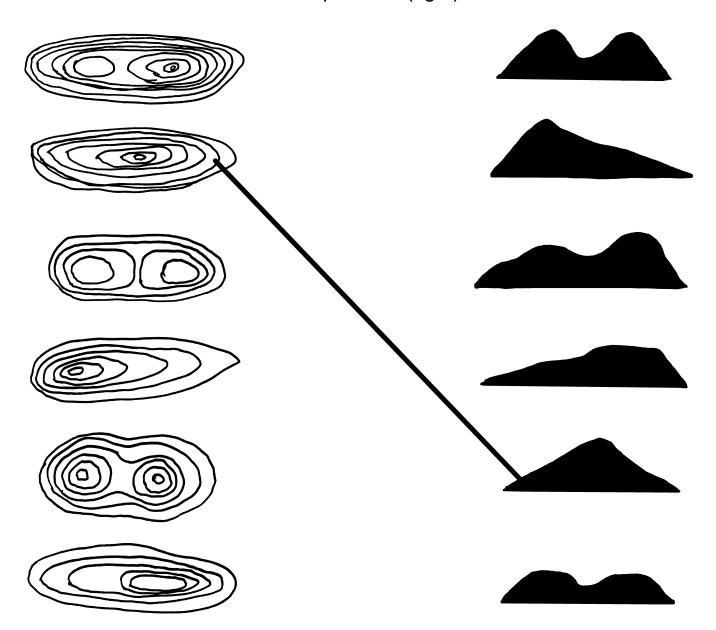


CONTOUR MATCH-UP!

CONTOUR LINES are imaginary map lines that join points of equal elevation in the terrain.

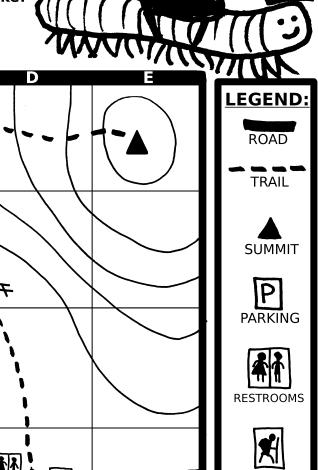


Draw a line matching each CONTOUR LINE DRAWING (left) with the actual side-view **HILL SHAPE** it represents (right):



READING A TRAIL MAP:

Help Centi read this trail map to plan her next hike! You can find "coordinates" by combining a letter (from along the top of the map) with a number (left side) to indicate a precise square on the map.



FIND THE COORDINATES FOR...

1) Starting from the ROAD,	
find the PARKING LOT & TRAILHEAD:	日

The highest SUMMIT	on the map:
--------------------------------------	-------------

3) A PICNIC SITE near water:	
------------------------------	--

4) A PICNIC SITE between two summits:	
---------------------------------------	--

5)	Α	possible	CAMP	SITE:	
		•			

6) A TRAIL JUNCTION where the trail
from the camp site meets a trail that
leaves the map
heading NORTH:

7) Two squares with SWITCHBACKS
(where the trail goes back & forth
along steep terrain):

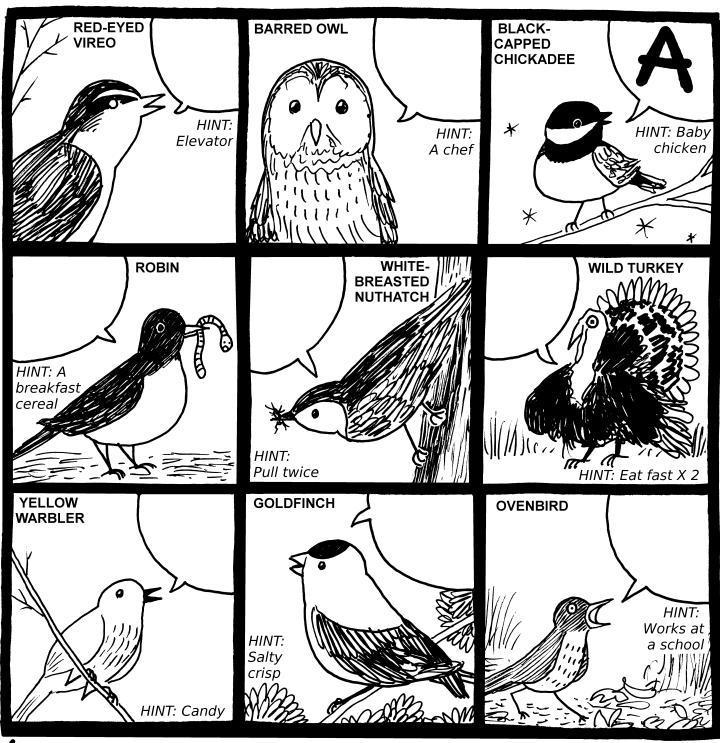
and	_
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PICNIC SITE

CAMP SITE

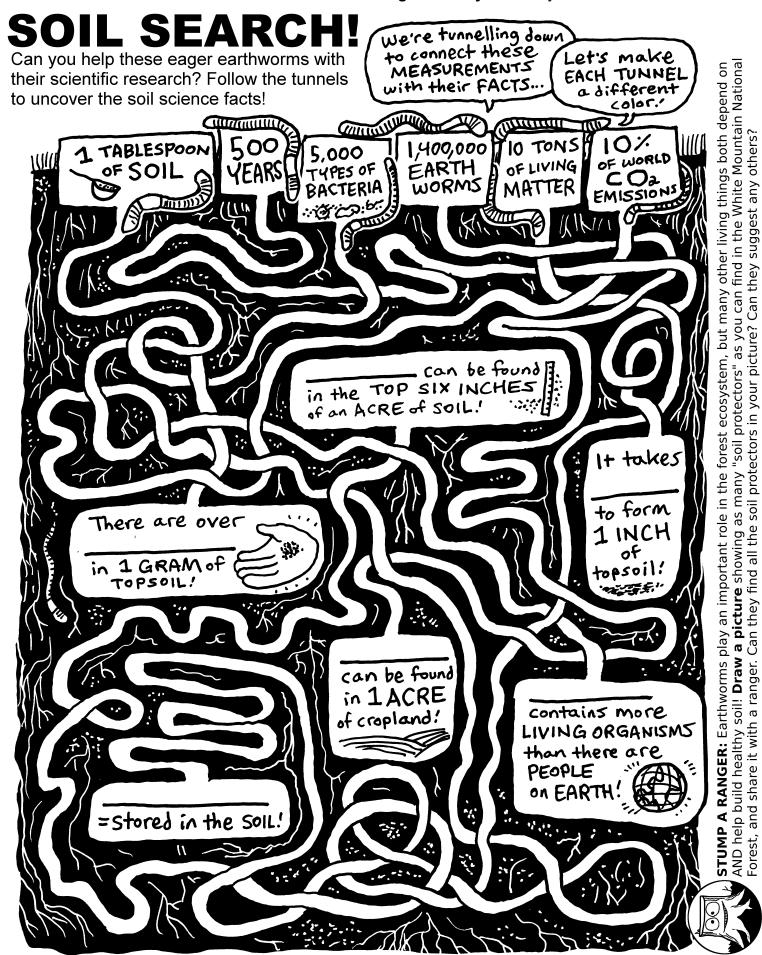
BODY OF WATER

Birds sing to identify their territory or to find a mate. Birds also sing to "talk" to let other birds know where they are and if they're friendly or looking to defend food or territory. Some bird songs sound like everyday words people use. Below are pictures of some birds you will find in the White Mountains. Using the clue in each panel, match that bird with its human-word song (bottom) & put the correct song letter in that bird's balloon:



- A) "Chick-a-dee-dee-dee"
 - (B) "Sweet, sweet, I'm so sweet" (F) "Gobble, Gobble"
 - (C) "Cheerio, cherry me, cherry me"
 - (D) "Teacher-teacher-teacher"
 - (E) "Yank, yank"

- (G) "Going up coming down"
- (H) "Potato chip-potato chip"
- (I) "Who cooks for you"

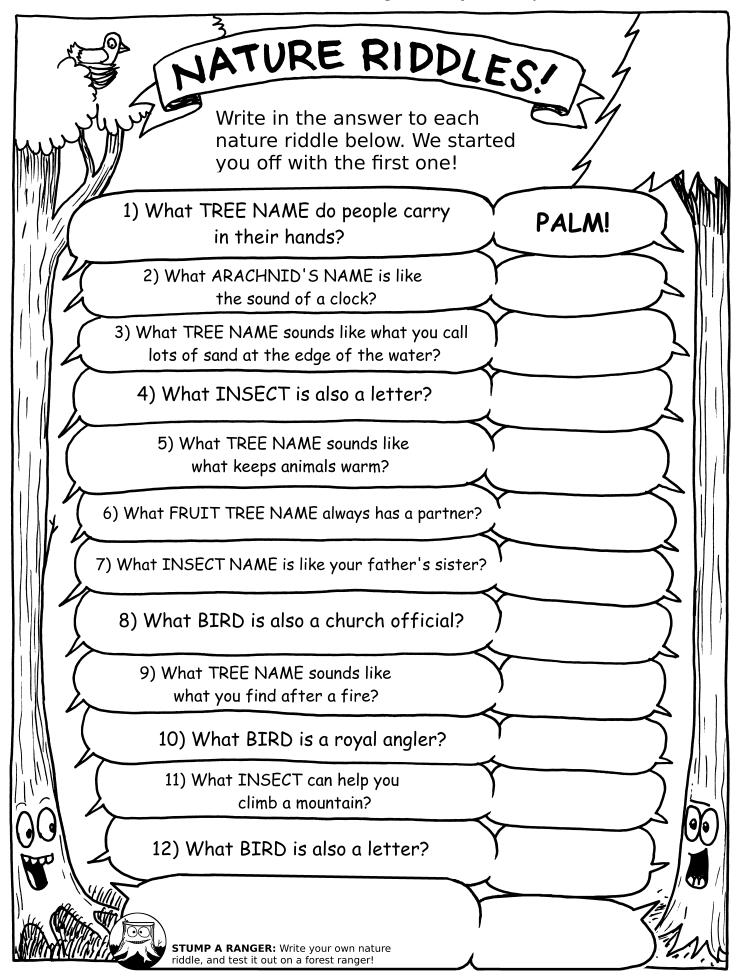


WATCH FOR

TRAIL MAINTENANCE **CONNECT-THE-DOTS**

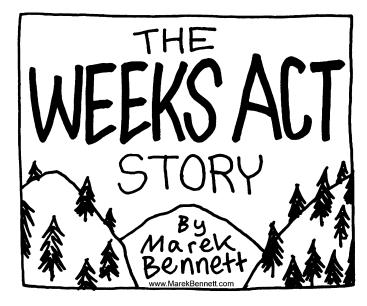
National Forest trail system? Starting with dot #1 (at the arrow below), connect all the dots in order 1-99 to find out!

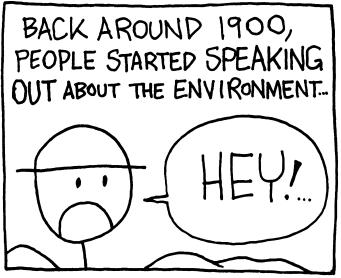




































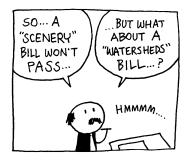








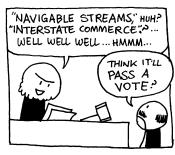


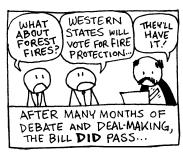






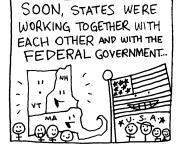












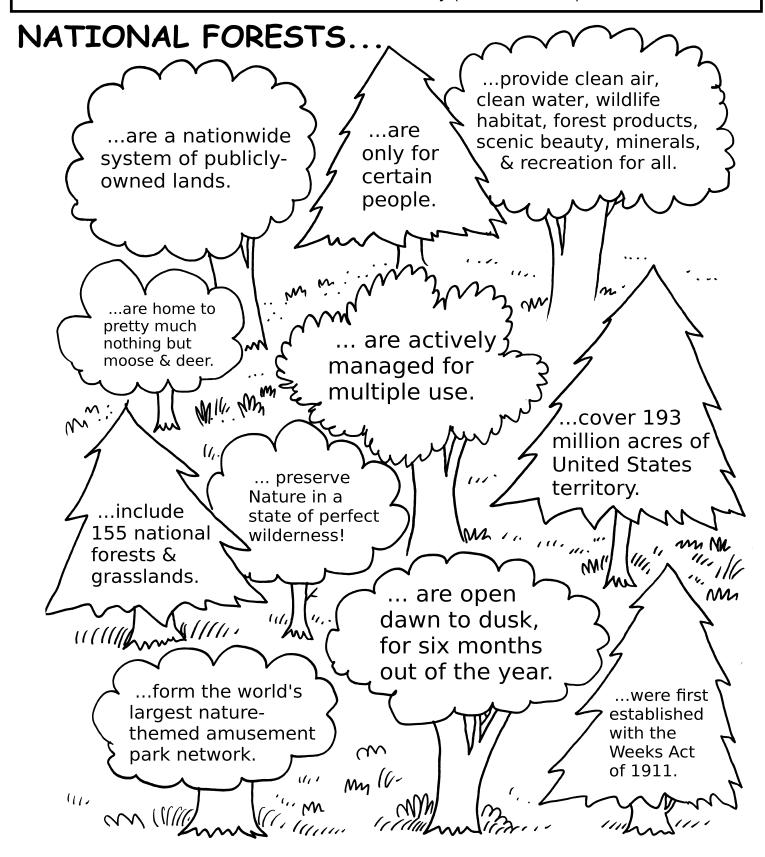






YOUR TURN: JOHN WEEKS is a real person who lived over a hundred years ago! Draw what you think he'd do & say if he could visit the WHITE MOUNTAIN NATIONAL FOREST today...

Help us safeguard and strengthen the environment! Draw an "X" through the trees that DO NOT describe National Forests, so that the healthy (and fact-based) trees can flourish:



A FEORST PORDIVES TSHEE...

A	FOREST	「 PROVII	DES	THESE
---	---------------	----------	-----	-------

We rely on forests in many ways & for many things Unscramble the following mystery



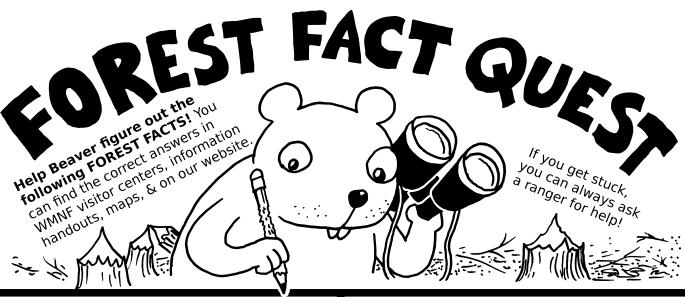
Many items we use every day come from trees. You might be surprised by what's made from

wood & tree by-products...
Find the following tree-based
products (right) in the word search

products (right) in the word search below. (Words can run ACROSS, UP, DOWN, DIAGONALLY, & even BACKWARDS.)

BAND AIDS	FURNITURE	PAPER	TOYS
CARPET	ICE CREAM	PENCILS	
CLOTHES	LUMBER	RUBBER	
FRUIT	MEDICINE	TOOTHPI	CKS
FUEL	PAINT	TOOTHPA	STE

Т Τ N K \mathbf{E} Ι Ι В Ν Ν R G S S S Р K \mathbf{E} Τ U Z E \mathbf{L} \mathbf{E} \bigcirc V S S S X Α Ε K В \mathbb{L} \mathbf{E} \bigcirc Р В \mathbf{E} Τ Τ Y \bigvee CM В Ι Ι Ι Α В R R S Z J Z K Ν Ρ V Η U R U Α J S N Y Τ CΗ Η \mathbf{E} Y R E \mathbf{E} G S T Τ K K Τ U Ι Η Z Α D Μ J G Y Y F \bigcirc Ν G Р J ZΜ X X Ι Χ F F R \bigvee \bigvee Ι 0 \bigcirc S Τ Z Τ Τ R P Η D U U U В A P \mathbf{E} \mathbf{E} W IJ \mathbf{E} F I Ι M D Ν K S S P Τ R L I \mathbf{E} В C Ν Р L N Τ I \mathbf{E} F IJ Р R Ι Μ F Μ Z S R K K Ι K K Р \mathbf{L} F IJ K Z В F Α F Η K F R m LG



1) Name the two National Forests in New England:		6) What is the elevation of the highest point on the Kancamagus Highway?	
2) Name any 3 of the		7) What is the elevation at the summit of Mt. Washington (the highest point in the northeastern United States)?	
48 White Mountains over 4,000 feet tall:		8) U.S. Forest Service Snow Rangers of the Mt. Washington Avalanche Center are the only Forest Service avalanche forecasters & educators east of the Mountains:	
3) In which two New England states is the White Mountains National Forest located?		9) The Great Gulf Wilderness (the first federal Wilderness designated on the WMNF) is located on which Ranger District?	
4) What scenic byway follows a Native American footpath named for the last chief of the Penacook Confederacy (a union of 17 New England tribes)?		10) How many miles of old railroad tracks are there in the Pemigewasset Wilderness?	
5) Name the two National Historic Sites in the White Mountains (HINT: Both are located in the Saco Ranger District.):		11) What's the river near Loon Mountain whose name is an Abenaki word meaning, "rapidly moving"?	
		12) What's the name of the world class rock climbing area in the Pemigewasset District?	



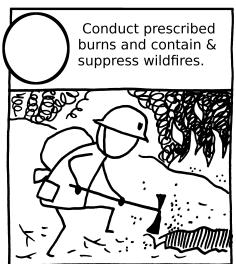
STUMP A RANGER: Find your own fun facts about the White Mountain National Forest! They can be map facts, statistics, or interesting historical sites. Write them down, and see if a ranger can answer your quiz. (You might want to let them to look up the answers.)

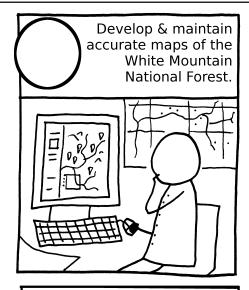
WHAT DO FOREST **RANGERS DO?**

Pair the following types of rangers (right) with their job descriptions by writing their numbers in the correct circles below. (#1 is already done for you!)

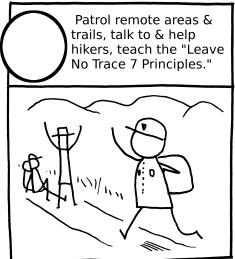
- 1) Trail crew
- 2) Backcountry
- 3) Visitor Services
- 4) Forester
- 5) GIS Map/Data
- Administrative
- 7) Fire Management
- 8) Law Enforcement
- 9) Recreation Crew

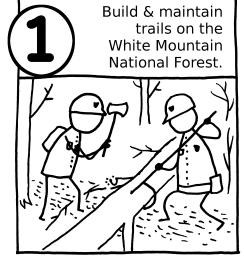




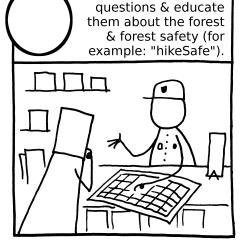












Answer visitors'



INTERVIEW A FOREST RANGER

Find a forest ranger who can take a couple minutes to speak with you and answer some interview questions. Write their answers in the spaces below:



RANGER'S NAME:	Years on the job:
What is your job? (Type of ranger, responsibilities, etc.)	
What part(s) of the forest do you work on?	
What's the most rewarding part of your job?	
What's the most difficult part of your job?	
What's one thing you would like people to learn today?	
Now draw a picture showing t	his ranger at work, based on what they've told you:

BONUS: Color your picture; then share this page with your ranger to get their reaction!



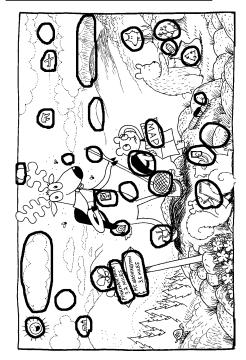


TOP-SECRET ANSWERS PAGE:

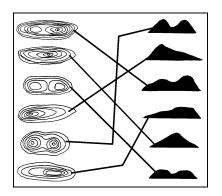
P.4 HIKESAFE MOOSE

(1)compass (2)map (3)warm clothing (4)pocket knife (5)flashlight (6)food & water (7)rain/wind gear (8)whistle (9) first aid kit (10) matches

P.5 SPOT THE DIFFERENCES



P.8 CONTOUR MATCH-UP!



P.9 READING A TRAIL MAP (1)D4 (2)B4 (3)E4 (4)D2 (5)A2 (6)B2 (7)B4,C4

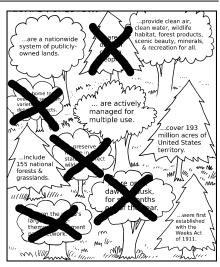
P.10 MUSICAL MESSAGES

TOP ROW: (G)(I)(A)MIDDLE ROW: (C)(E)(F) BOTTOM ROW: (B)(H)(D)

P.13 NATURE RIDDLES

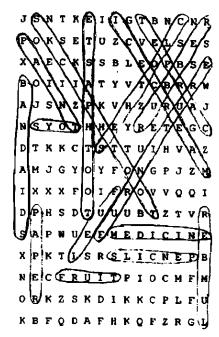
(1)palm (2)tick (3)beech (4)bee (5)fir (6)pear (7)ant (8)cardinal (9)ash (10)kingfisher (11)walking stick (12) jay

P.18 WHAT IS A NAT'L FOREST?



P.19 A FOREST PROVIDES... CLEAN AIR / SCENERY / JOBS / FOOD / WILDLIFE HABITAT / RECREATION / FOREST PRODUCTS / CLEAN WATER / LUMBER / PAPER / FIREWOOD / SOIL PROTECTION / **BIODIVERSITY**

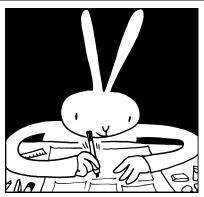
P.20 WOOD GOODS...



P.21 FOREST FACT OUEST

(1)Green Mountain National Forest & White Mountain National Forest (2) Answers may vary. (3) NH & ME (4)Kancamagus (5)Russell Colbath House, Brickett Place (6)2,855 ft. (7)6,288 ft. (8)Rocky (9)Androscoggin (10)50 (11)Pemigewasset (12)Rumney **Rocks**

P.22 WHAT DO FOREST RANGERS DO? TOP ROW: (4)(7)(5)MIDDLE ROW: (9)(2)(1) BOTTOM ROW: (6)(3)(8)



ABOUT THE CARTOONIST:

Marek Bennett grew up in New Hampshire – he is old enough to remember visiting The Old Man of the Mountain when he (Marek) was a kid! He draws lots of comics about New England history, including his current long-running series, The Civil War Diary of Freeman Colby. Marek teaches Comics Workshops at schools & libraries all over. For more about Marek's work, including new White Mountains material & sneak-peeks at upcoming projects, see: www.MarekBennett.com

You can also find Marek on social media & at work in his online open studio at: www.patreon.com/marekbennett

JU		ANGER CERTIFICAT	E
	save and faithfully defend from waste	e my pledge as a Junior Forest Ranger to e the natural resources of my country—its eers and trees, its waters and its wildlife.	
JR. RAN	IGER'S		NWW.
Π 8/ B 1/4 B -	NAME:	AGE:	
MM	I hereby certify that	the above person has	MINWITM
MXI		<u>*</u>	MIMIN
V	successfully completed al	•	N XXXXIV
MAN	White Mountain Nation	al Forest Junior Ranger.	IY/YA IND
FOREST			I/KAN W W
RANGER NAME:		DATE:	
NWII		DATE.	N JAHAYA Y
LOCAT			IX/XMN N
			<i>IMM</i> ININN N

JUNIOR RANGER ACTIVITY BOOK FEEDBACK FORM

Please take a few moments to fill out this form and...:

- Give it to a Ranger or US Forest Service Volunteer.
- Send it to the WMNF (see box →).

WMNF Junior Ranger Team

71 White Mountain Drive Campton, NH 03223

www.fs.usda.gov/contactus/whitemountain/about-forest/contactus

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Thanks for helping us improve our offerings for White Mountain National Forest visitors!							
(1) AGES OF CHILDREN USING THIS BOOK:							
(2) FAVORITE PAGE IN THIS BOOK:							
BECAUSE:							
(3) IN FUTURE EDITIONS, I WOULD LIKE TO SEE MORE PAGES WITH (circle any):							
coloring	word search	riddles	connect-the-dot	s mazes	puzzles		
animals	plants pe	ople how	-to stories	other			

MORE JUNIOR RANGER RESOURCES:

- For extension activities & resource links related to this book, visit:
 WMNF "Just for Kids" www.fs.usda.gov/main/whitemountain/learning/kids
- For new artwork & special features from Marek Bennett's Comics Workshop, see: www.MarekBennett.com
- The White Mountain National Forest: www.fs.usda.gov/whitemountain
- The Forest Service's Junior Forest Ranger site: www.fs.fed.us/learn/kids

Connect with WMNF on social media! If you share images of your artwork from this book, please use the tag: #wmnfkids



SPECIAL THANKS:

- This publication is made possible by the generous support of the White Mountains Interpretive Association.
- Many thanks to the White Mountain National Forest Conservation Education Team for their expertise & advice in the development of this book.
- We are extremely grateful for the creativity, synergy & collaborative skills of **Marek Bennett**. This book would not have happened without his efforts!

USDA is an equal opportunity provider, employer, and lender.



To personalize this book cover: Fill the blank space on this cover (front & back) with a White Mountain forest scene for Moose & Beaver & friends to hike through! Color your artwork & share the results with a forest ranger or WMNF volunteer.

EXPLORE - LEARN - CONSERVE