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Junior Panger Workbook .

HELLO JUNIOR RANGER CANDIDATE!

Welcome to Sleeping Bear Dunes National Lakeshore!

Would you like to become a Junior Ranger? Here's all you do:

- (1) Complete at least one challenge from each section of this workbook, or
- (1) Complete at least one challenge from eight of the nine sections and take the Junior Ranger hike.
- (2) When you've done one of the above, take this workbook to the Visitor Center and show it to a ranger.

You will receive a Junior Ranger Patch, a Junior Ranger Certificate, and the honor of becoming a Junior Ranger!

NOTE: If you complete at least two challenges from each section of this workbook, you will also earn an Assistant Junior Ranger Certificate for a member of your family.

And now, Junior Ranger candidate, repeat the following lines before a witness; they are your Junior Ranger oath:

I WILL

- RESPECT ALL LIVING THINGS AND TRY TO LIVE PEACEFULLY WITH THEM

- TAKE ACTION TO IMPROVE MY ENVIRONMENT, WHEREVER I AM

- PRESERVE THE SENSE OF WONDER THAT I HAVE AS A YOUNG PERSON, CHERISH AND NURTURE IT THROUGHOUT MY LIFE

Signature of Witness:___

We at Sleeping Bear Dunes National Lakeshore wish you courage, good luck, and a lot of fun in your quest for Junior Ranger status.

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INFORMATION AND SUGGESTIONS

SECTION ON	E - OUR NATIONAL PARK SYSTEM
Challenge One: Name three other Natio	nal Parks and the state in which each is located.
National Park	State
1	
2	
3	

	Stwo National Parks other than Sleeping Bear Dunes found in Michigan. north of Sleeping Bear Dunes National Lakeshore.)
1	2

	ou have visited which was not a National Park. Please include: Name orite thing that you did, what time of year it was, and how that park National Lakeshore.

Challenge Farm Cate and of the server	
	-led activities. Have the ranger initial here
What is the name of the walk or slide show	w?
Write down one thing that you learned	
NOTE: One challenge per section is required for	a patch.

SECTION TWO - SLEEPING BEAR DUNES NATIONAL LAKESHORE

Challenge One: Go to the DUNE CLIMB. Find the post that measures the movement of the sand dune.(It's at the bottom of the dune, on the north side.) Read the sign that's there. Then figure out how many feet per year the sand has moved since the year that the post was installed. Write your answer here.

Challenge Two: Go to the SCENIC DRIVE and stop at the Lake Michigan Overlook. What major landmarks can you see from there?

1)	
2)	
3)	
<i>J</i>	

Challenge Three: Go to the MARITIME MUSEUM. Find the items listed below in the boathouse, the surfmen's quarters, or on the grounds. Tell us exactly where you found them.

AN OLD OUTHOUSE
A BEEBE-McLELLAN
A STEAMBOAT PILOT HOUSE
A LYLE GUN
A PICTURE OF AN ADMIRAL
A PICTURE OF A WOMAN RIDING A BREECHES BUOY
AN OLD LIGHTHOUSE LENS
TACONITE
Also, name one ship that wrecked along the Manitou Passage.

Challenge Four: Write down the LEGEND OF THE SLEEPING BEAR in your own words:

					4444 a.
	**	*****	*****		
hallenge Five: At	tend a ranger-led activi	ity which you have	not already attende	ed.	
Ha	ve the ranger initial her	re			
Vhat is the name of	f the walk or slide show	v?			
rite down one new	thing you learned.				



emember, only one challenge per section is required for a Junior Ranger patch.

SECTION THREE - OUR NATURAL AND CULTURAL HISTORY	
Challenge One: What is natural history?	
Tell about some natural history that you learned while in the park	

Challenge Two: What is cultural history?	
Tell about some cultural history that you learned in the park	

Challenge Three: Attend a slide show or a movie at the Visitor Center. What show did you see?	

What was your favorite part?_____

Challenge Four: Draw a picture of an animal that you saw in the park.

Challenge Five: Attend a ranger-led activity which you have not attended. Have the ranger initial here._____

What is the name of the walk or the slide show?_____

Write down one new thing that you learned._____

One challenge per section is required for a Junior Ranger patch.

SECTION FOUR - PROTECTING OUR RESOURCES

We protect our resources by getting to know them well and then using them in a way which will save them for others to enjoy.



Challenge One: List five kinds of wildlife that you have seen in the park. Next to each note 1.the date and time of day you saw it, 2. the weather conditions, 3. where you saw it, 4. what it was doing, and 5. its habitat.

1		
2		
· · · · · · · · · · · · · · · · · · ·		
3		
4		
5		

Challenge Two: A sand dune is often called a fragile environment. Why?

Challenge Three: Name three plant communities that live in this park. (Check the display in the Visitor Center for the answer.)

1	
2	
3.	

Challenge Four: Name four kinds of rocks found in this park. (Check the display in the Visitor Center for the answer.)

1	2
3	_ 4

Challenge Five: Attend a ranger-led activity which you have not already attended.

Have the ranger intial here_____

What is the name of the walk or the slide show?_____

Write down one new thing you learned._____



SECTION FIVE - OUR EFFECT ON THE ENVIRONMENT

The National Parks are for visitors to enjoy. Yet, we must also protect our resources. Visitors are welcome to the park, but remember that it is possible to love your park to death! There are many ways we can lessen our impact on the environment here.



Challenge One: Listed below are some things that people have done at Sleeping Bear Dunes National Lakeshore. Are these things that we should do (yes) or should not do (no)?

1. Take a portable stereo into the campground or on the trails and play it loudly. yes no

2.	Pick up	p any	trash	you	find	and	put	it	into	the	nearest	trash	can.	У	ves	no
----	---------	-------	-------	-----	------	-----	-----	----	------	-----	---------	-------	------	---	-----	----

3. If an animal walks into your camp, wage battle with it. yes no

4. Pick beautiful or interesting plants so that you can take them home. yes no

5. Be very quiet on the trails so that you don't disturb wildlife. yes no

6. When you hike, take a map of the area, some water, layers of clothing, comfortable shoes, a hat, and sunglasses. yes no

7. Use a camera to take home picture souvenirs of the park. yes no

8. Always wear Vibram-soled boots with a "waffle" pattern or cleated softball shoes to get enough traction. yes no

9. If an animal is in your campsite, invite it for dinner. yes no

10. If the trail seems wide enough for a truck, take your vehicle on it. yes no

NOTE: See page 22 for explanations

10

Challenge Two: Explain why it is important to preserve our National Parks for future generations.

Challenge Three: Name one plant and one bird in Sleeping Bear Dunes National Lakeshore that is easily affected by human activity. How is it affected?
(Plant)
(Bird)

Challenge Four: Attend a ranger-led activity which you have not already attended.
Have the ranger initial here.
What is the name of the walk or slide show?
Write down one new thing that you learned

NOTE: One challenge per section is required for a Junior Ranger patch.

SECTION SIX - VISITOR PROTECTION

Have a safe and pleasant visit at Sleeping Bear Dunes National Lakeshore.



Challenge One: For everyone's protection and benefit, there are certain rules we all must follow while using this park. Write down four of them.

1	 	 	 	 	
2					
3					
4		 	 		
		-			

Challenge Two: Have you seen anything in the park that seems like a hazard to your safety? Please tell us about it here.

hallenge Three: Have you seen something in the park that has been vandalized? Please tell us about it here. Try to describe the location well.

hallenge Four: Write down one good thing that could be done to make this park even more pleasant and safe r you.



SECTION SEVEN - ENDANGERED SPECIES

An ENDANGERED species is a species that is in danger of becoming extinct (disappearing from the earth forever). A THREATENED species is one which may become endangered soon. A RARE species is one which is uncommon.

Endangered, threatened, and rare species are protected. Even if you are outside of Sleeping Bear Dunes National Lakeshore (where everything is protected), you may not pick, kill, or alter the habitat of these species

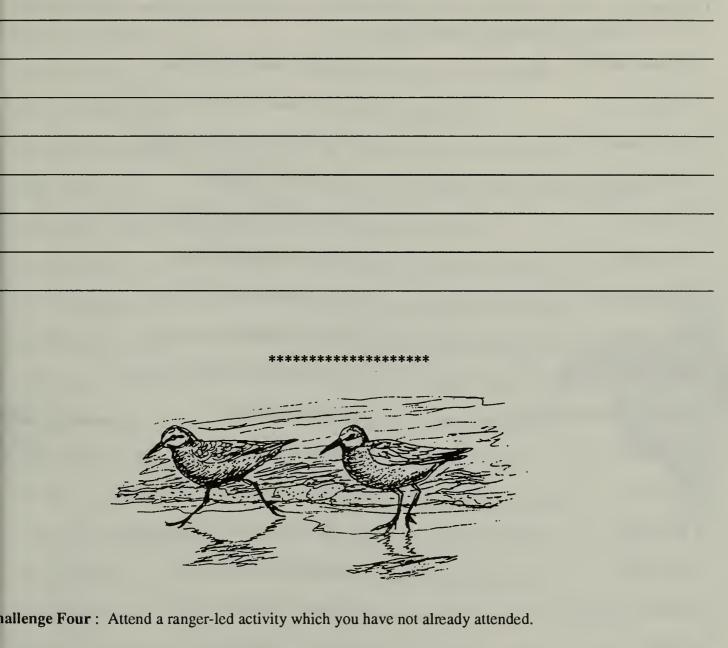
There are many good reasons to save these species. One is that we can look at how they are doing and possibly be forewarned about how well we will survive.



Challenge One: Name one ENDANGERED, THREATENED, or RARE plant found at Sleeping Bear Dune: National Lakeshore, and tell where it lives.

Challenge Two: Name one animal that you think might have lived at Sleeping Bear Dunes but is now extinct

hallenge Three: Write a poem about what you think it would feel like to be an endangered creature.



Have the ranger initial here.

hat is the name of the talk or the slide show?_____

rite down one new thing that you learned._____

SECTION EIGHT - NATURE SPY

It's fun to "spy" on nature, to see how animals act when they don't know that you are there. It takes practic and skill to observe wildlife without letting it know you are watching!

Challenge One: These mammals are found at Sleeping Bear Dunes National Lakeshore. Match the animal with its description. The first one is done for you.

1. White-tailed DeerQ	A. Largest squirrel in Michigan
2. Badger	B. Bandit mask, soft pads on paws
3. Little Brown Bat	C. Small squirrel that lives in pines
4. Star-nosed Mole	D. Some call it a gopher
5. Red Fox	E. Sleek, playful, aquatic predator
6. Woodchuck	F. Nocturnal winged mammal
7. Flying Squirrel	G. White-tipped tail, lives in den
8. Red Squirrel	H. Stinky, might visit your camp
9. Fox Squirrel	I. Feels with nose while underground
10. 13-lined Ground Squirrel	J. A digging predator
11. Chipmunk	K. Prickly, bark-eating
12. Raccoon	L. Big, brown, black, or grey squirrel
13. Porcupine	M. Like fox squirrel with white front
14. River Otter	N. Predator in the weasel family
15. Beaver	O. Big eyes, nocturnal, in trees
16. Skunk	P. Water rat is another name
17. Shrew	Q. Flashes enemies to confuse them
18. Grey Squirrel	R. Cute, voracious, on S. Manitou
19. Mink	S. Water herbivore, builds dams
20. Muskrat	T. Small, nocturnal, predator
NOTE: Answers are found on page 22.	T. Small, nocturnal, predator

One

allenge Two: These birds are found at Sleeping Bear National Lakeshore. Match each with its description.

- Pileated Woodpecker _____
- Northern Harrier
- American Redstart
- Red-headed Woodpecker _____
- Ruffed Grouse _____
- Black-capped Chickadee ____
- Great Blue Heron _____
- Hooded Merganser
- Great Horned Owl
- Loon _____
- Barred Owl _____
- Yellow-billed Cuckoo _____
- Ovenbird _____
- Ruby-throated Hummingbird ____
- Eastern Bluebird
- Upland Sandpiper _____
- Red-breasted Grosbeak
- Indigo Bunting
- Turkey Vulture
- Sharp-shinned Hawk

- A. Became rare when wooden fenceposts did.
- B. Big, long-legged, fish-eating
- C. Eats tent caterpillars
- D. A little, common, flashy warbler
- E. Nocturnal predator, asks "Who cooks for you?"
- F. Pecks at trees noisily
- G. Raids bird feeders, not for seed
- H. Drums with wings, sitting on logs
- I. Diving duck with fancy headdress
- J. Male's front is black, red, white
- K. Bright blue male, brown female
- L. Used to be called a Plover
- M. Wears a tuxedo and red ski mask
- N. Used to be called Marsh Hawk
- O. Bold; name sounds like its call
- P. Brown, nocturnal, predator with yellow eyes
- Q. Waterfowl, haunting cry, dislikes noise
- R. Says, "Teacher, Teacher, Teacher"
- S. Flies very fast
- T. Big, black scavenger; soars when flying

Challenge Three: These plants, trees, and shrubs grow at Sleeping Bear Dunes National Lakeshore. Match each with its description.

- 1. Wormwood _____
- 2. Beachgrass _____
- 3. American Beech
- 4. Wood Lily _____
- 5. Red-osier Dogwood _____
- 6. Dutchman's Breeches _____
- 7. Yellow Trout Lily _____
- 8. Cottonwood _____
- 9. Pink Ladies Slipper _____
- 10. Trillium _____
- 11. Wood Nettle
- 12.Sugar Maple _____
- 13. Wild Leek _____
- 14. Bracken Fern _____
- 15. Bloodroot _____
- 16. White Pine _____
- 17. White Oak _____
- 18. Sweet cicely _____
- 19. Jack-in-the-pulpit _____
- 20. Pitcher's Thistle

- A. Makes cow's milk taste like onions
- B. Early spring flower, red sap in roots
- C. Michigan state tree
- D. Flaky grey bark, tasty acorn
- E. Produces stick-tights
- F. Looks like a minister in a pulpit
- G. Found only on Great Lakes sand dunes
- H. Common fern in dry forests
- I. Protected, orange, found on dunes
- J. Leaf is mottled like fish skin
- K. On dunes, biannual, named after something you take fishing
- L. Smooth silvery bark, in climax forest
- M. Keeps growing when buried
- N. Small, hairy, burgundy, grows on dunes
- O. Protected orchid of north woods
- P. Tiny needles contain formic acid
- Q. Looks like pants hung out to dry
- R. First tree to grow on sand dunes
- S. Makes good syrup for pancakes
- T. Takes at least six years to make a flower



hallenge Four: These little creatures are found at Sleeping Bear Dunes National Lakeshore. Match each ith its description.

Ringnecked Snake	A. Little snake, side row of brown dots	
Grey Tree Frog	B. This guy lives in the pits	
Tent Caterpillar	C. Sounds like a one-stringed banjo	
Wood Frog	D. Predatory larva, live in a case in a stream	
Black Widow Spider	E. Believed to foretell hard winters	
Brown Recluse Spider	F. Hairy spider, doesn't spin web	
Chorus Frog	G. Runs on hot sand with long legs	
Woolly Bear Caterpillar	H. Spider, shiny, black, female is poisonous	
Wolf Spider	I. Hairy morsels for Cuckoo birds	
). Tiger Beetle	J. Male flashes yellow inner-thigh to female	
. DeKay's Snake	K. Sounds like finger running down teeth of comb	
2. Ant Lion	L. Amphibian, bandit mask, suckers on toes	
3. Green Frog	M. A duck has the same first name	
4. Caddisfly	N. Has spots, found under logs	
5. Spotted Salamander	O. Has shell and striped neck	
5. Blue Racer	P. Big fast snake	
7. Painted Turtle	Q. Michigan's only poisonous snake	
8. Massasauga	R. Biggest turtle here	
9. Snapping Turtle	S. Forked tongue, swims in water, bites, but not poi	

T. Poisonous brown spider, marks like violin on back



poisonous

). Water Snake ____

SECTION NINE - WILDERNESS CAMPING

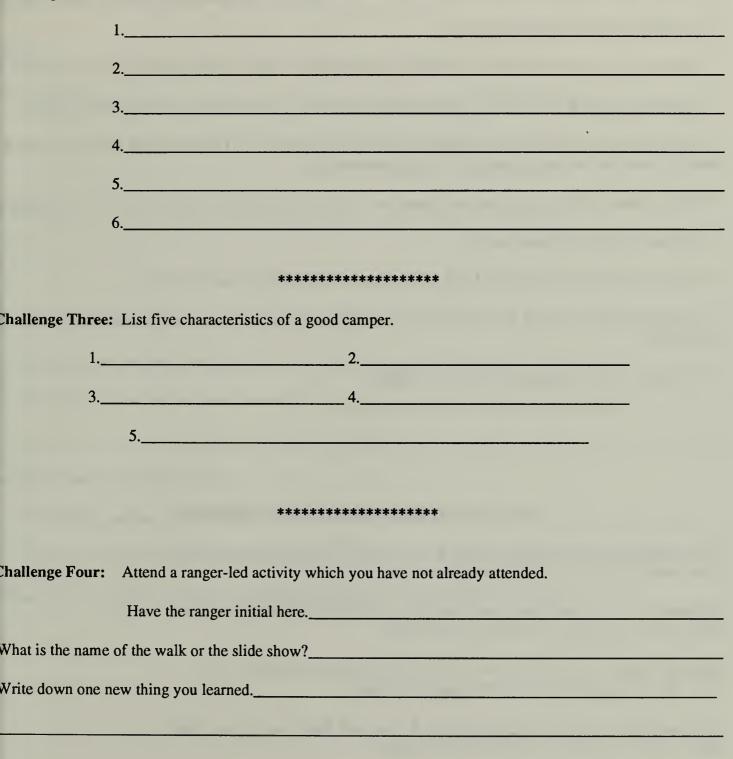
Some areas at Sleeping Bear Dunes National Lakeshore are designated as WILDERNESS. Camping properly there takes special effort and skill. At all campgrounds, try to leave camp as you found it so the next visitor will enjoy it too.

Here is a camping checklist.

- 1. Pack out everything that you pack in.
- 2. Make a fire only in fire pits.
- 3. If no fires are allowed, bring a backpacking stove.
- 4. Do not wash in a water pump.
- 5. If you wash in the wilderness, carry water 300 feet from source. Thick soil helps break down waste.
- 6. Use the outhouse. If there is none, dig a six-inch hole and cover it. Do this away from any water source.
- 7. Campsites should be about 300 feet away from a water source.
- 8. Don't eat food in your tent; this attracts animals. Even cute little chipmunks can chew through your tent and eat your food.
- 9. If there is no water pump, boil, filter, or chemically treat your water.
- 10. Make a fire only as big as you need. Be sure it is cool before you leave.
- 11. Don't leave unburned trash in fire pit. Don't burn plastic, cans, or tinfoil in the pit.

Challenge One: Name the three campgrounds on South Manitou Island.





Challenge Two: List six rules for camping on North Manitou Island.

EXPLANATIONS FOR SECTION FIVE, CHALLENGE ONE

1. Loud music is inappropriate because it disturbs wildlife and campers.

2. Yes, please help us keep the park clean.

3. The best way to keep out invaders is to keep a clean campsite. Put food in solid containers such as coolers.

4. All plants in the park are protected. Things might start loooking a little barren if everyone picked plants!

5. Loud noises often mean danger to animals, and causes them stress. Don't make their life any more stressful than it is. Also, people come to the park to enjoy peace and quiet.

6. This prevents you from getting lost, and allows you to enjoy the trails more comfortably.

7. A picture is worth a thousand words!

8. Treads won't do you much good. Make sure that your footwear is light and comfortable.

9. If a camper feeds an animal, that animal may become dependant on hand-outs and even teach this behavior to its young.

10. Vehicles erode the hiking trails and are prohibited.

ANSWERS TO SECTION EIGHT - NATURE SPY

Challenge One - 1=Q, 2=J, 3=F, 4=I, 5=G, 6=A, 7=O, 8=C, 9=L, 10=D, 11=R, 12=B, 13=K, 14=E, 15=S, 16=H, 17=T, 18=M, 19=N, 20=P

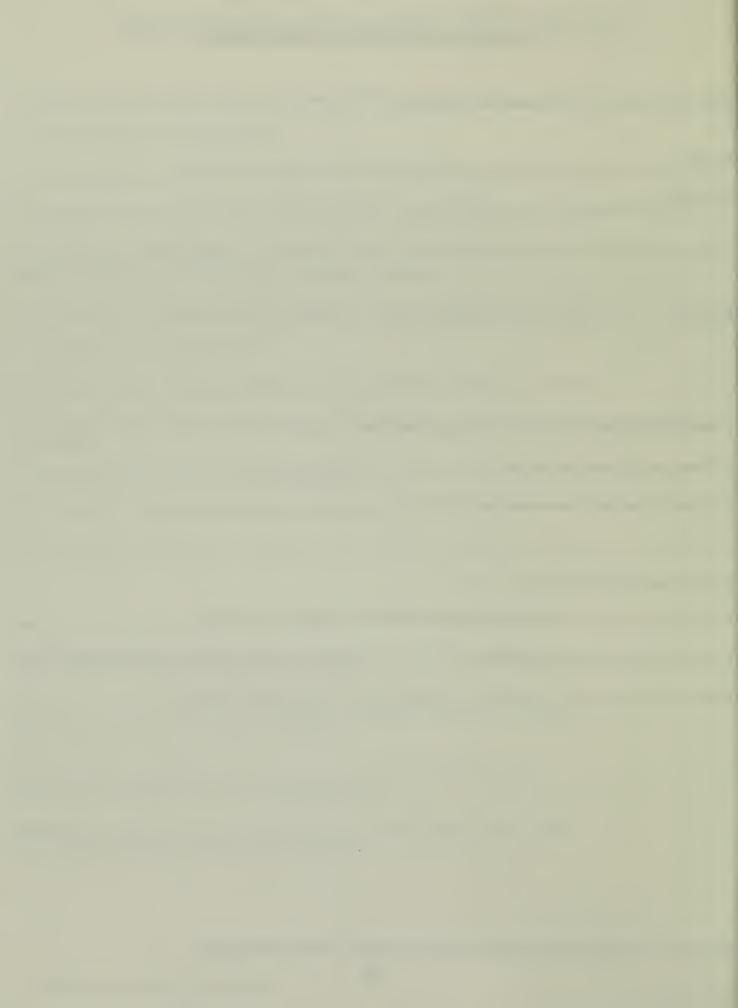
Challenge Two - 1=F, 2=N, 3=D, 4=M, 5=H, 6=O, 7=B, 8=I, 9=P, 10=Q, 11=E, 12=C, 13=R, 14=S, 15=A, 16=L, 17=J, 18=K, 19=T, 20=G

Challenge Three - 1=K, 2=M, 3=L, 4=I, 5=N, 6=Q, 7=J, 8=R, 9=O, 10=T, 11=P, 12=S, 13=A, 14=H, 15=B, 16=C, 17D, 18=E, 19=F, 20=G

Challenge Four - 1=M, 2=J, 3=I, 4=L, 5=H, 6=T, 7=K, 8=E, 9=F, 10=G, 11=A, 12=B, 13=C, 14=D, 15=N, 16=P, 17=O, 18=Q, 19=R, 20=S

INFORMATION AND SUGGESTIONS

Please fill this out for our information. Thank you!		
NAME:		
ADDRESS		
PHONE:		
. Rate this workbook from 1 - 10. (1=easy, 10=difficul	t)	
2. Which activity was your favorite?		
3. What did you learn that surprised you most?		
. How many people helped you?		
6. Who helped, parents? other family members? friends	?	
b. Did you attend a Junior Ranger Hike?	You may substitute the hike fo	r one challenge.
Please draw a picture of your favorite thing at Sleeping E	ear Dunes National Lakeshore	



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