

Next Week: Back to school



photo by Dan Nevill

**Mini Fact:**  
The Cape Mears light in Oregon has red and clear sides of its lens, which produce red and white beams of light.



photo by John Hoey

This is the Fresnel lens inside the Boston Light. The light flashes white every 10 seconds and can be seen from 27 nautical miles away. The lens is about 13 feet tall by 5 feet around.

### Making the light

In 1822, a French scientist, Augustin-Jean Fresnel (fray-NEL), invented a lens that made the light shine brighter. It gathers many light rays into one very bright beam.

It is made of hundreds of pieces of specially cut glass, with a magnifying glass in the middle.

The Fresnel lens made it possible for a beam of light to be seen from more than 20 miles away.



photo by Karen Blaha

The light in Cape Hatteras, N.C., is the tallest brick lighthouse in the United States, standing at 210 feet tall. Its distinctive diagonal stripes and red base make it easy to recognize.



### Resources

#### On the Web:

- [uslhs.org/fun/kids-corner](http://uslhs.org/fun/kids-corner)

#### At the library:

- “Hello Lighthouse” by Sophie Blackall
- “How Does a Lighthouse Work?” by Roman Belyaev

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### Try 'n' Find

Words that remind us of lighthouses are hidden in this puzzle. Some words are hidden backward or diagonally, and some letters are used twice. See if you can find:



BUOY, COAST,  
DANGEROUS, DAYMARK,  
FLASH, FOGHORN,  
FRESNEL, KEEPER, LENS,  
LIGHTHOUSE, LIGHTSHIP,  
MAST, PATTERN, RADAR,  
REFLECTOR, SAILOR,  
SATELLITE, SHIPS,  
STRIPES.

R	P	I	H	S	T	H	G	I	L	H	S	K	S	V
A	O	L	I	G	H	T	H	O	U	S	E	S	M	S
D	K	T	S	X	H	Z	F	R	E	S	N	E	L	T
A	R	F	C	K	S	X	K	E	E	P	E	R	M	R
R	A	S	Z	E	A	C	C	O	A	S	T	J	L	I
S	M	A	P	Y	L	O	B	U	O	Y	G	F	E	P
P	Y	I	R	M	F	F	F	O	G	H	O	R	N	E
I	A	L	I	S	A	T	E	L	L	I	T	E	S	S
H	D	O	M	A	S	T	N	R	E	T	T	A	P	E
S	B	R	C	S	U	O	R	E	G	N	A	D	C	S

### Mini Spy Classics

Mini Spy and her friends are at a beach with a lighthouse. See if you can find the hidden pictures. Then color the picture.



Based on materials originally produced and/or created by Betty Debnam.

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- |              |              |            |               |
|--------------|--------------|------------|---------------|
| • frog       | • spoon      | • squirrel | • bear's head |
| • word MINI  | • knife      | • number 7 | • broom       |
| • man's face | • toothbrush | • ladder   | • apple       |
| • fork       | • strawberry | • seahorse |               |

### Mini Jokes



Leslie: What instrument do lighthouse keepers play?  
Liam: The foghorn!

### Eco Note



A species of butterfly migrates thousands of miles from sub-Saharan Africa to Europe during years when the weather is favorable. The painted lady's 8,700-mile migration is the longest known in the insect world. “We know that the number of painted lady butterflies in Europe varies wildly, sometimes with 100 times more from one year to the next,” said Tom Oliver of England's University of Reading. The weather may also affect other insects as the climate warms.

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### For later:

Look in your newspaper for articles about ships.

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