

Basic Mill Terms – Word Search Activity
 (Words can be found Horizontally, Vertically, Diagonally, Backwards and Forwards)

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

- Bails Iron tongs used with a stone crane to lift the runner millstone.

- Barter The trading of goods and services without the exchange of money.

- Bed Stone Lower or stationary stone in a pair of millstones.

- Bins Wooden containers for storage of grain or for receiving ground meal.

- Bran The edible broken seed coats of cereal grain such as wheat, rye and oats separated from the flour or meal by sifting or bolting.

- Bucket Board fixed between the shrouds of a water wheel that holds the water that is forced in from the flume control gate.

- Community A group of people with common interests, especially those living in the same area.

- Corn A plant or cereal grain whose kernel is used to produce corn meal and grits. Corn was domesticated from maize (*Zea mays*). Also called Indian corn.

<u>Cornmeal</u>	Freshly ground kernels of corn, either white or yellow, into the texture of meal. It is sold bolted or unbolted, which means whether or not the corn bran is removed.
<u>Custom Mill</u>	A mill that specialized in the making or selling of made-to-order goods. Yates Mill was a custom mill serving the needs of the local community.
<u>Damsel</u>	A small shaft, either wooden or metal, which fits onto the top of the stone spindle. It provides a cam motion to the shoe to assist in feeding grain into the eye of the runner stone.
<u>Energy</u>	The capacity to do work. Basic energy sources – water, muscle, heat, and wind power – have not changed since the beginning of time.
<u>Flour</u>	The product made by grinding and processing wheat.
<u>Flume</u>	The channel or canal which carried water from the headrace to the waterwheel.
<u>Grain</u>	The small hard seed of wheat, corn, rice, oats, etc. Bread and cereal are made from ground grain.
<u>Grist</u>	Grain or a quantity of grain for grinding.
<u>Grist Mill</u>	A mill used for grinding grains; a mill that grinds grain into flour (wheat) or meal (corn).
<u>Head</u>	The difference between the water level inside the flume and the water leaving the water wheel at the tailrace.
<u>Headrace</u>	Channel from the dam to the flume, which carries water to the waterwheel.
<u>Hub</u>	The centre of a waterwheel to which the arms are connected.
<u>Lands</u>	Grinding area of a millstone.
<u>Meal</u>	The edible seed or other edible part of any grain, coarsely ground.
<u>Merchant Mill</u>	A mill that deals with wholesale purchases and retail sale of goods or profit and export.

<u>Mill Dam</u>	A dam constructed across a creek to raise the water level so the overflow will have sufficient power to turn a waterwheel. Hurricane Fran breached the original dam in 1996. The original dam was lined with large stones and filled with stone rubble, while the rebuilt dam is also lined with original stones but has concrete core. The dam is 16 feet tall and 12 feet wide.
<u>Miller</u>	A person who operates a mill and grinds grain to make flour or corn meal.
<u>Millers Toll</u>	A portion of the grain or meal taken by the miller as payment for his services.
<u>Mill Pond</u>	The area of water (pond), normally created by damming a stream, that serves as a water reservoir and produces a head of water for operating a mill. Yates Mill Pond is approximately 20 acres in size.
<u>Millstone</u>	A pair of large, round stones between which grain is ground. The turning of the top stone (the cap or runner stone) does the grinding, while the bottom stone (the bed stone) does not move.
<u>Millwright</u>	A craftsman who plans, builds, and repairs mills and the water systems.
<u>Overshot Wheel</u>	A type of waterwheel that moves when water strikes it from above, at the highest point of the wheel's rim. The water fills the buckets and the weight of the water causes the wheel to revolve in the same direction as the flow from the flume.
<u>Pond</u>	A still body of water, smaller than a lake, often of artificial construction.
<u>Power</u>	The ability or capacity to act or perform effectively. Related to physics, it is the rate at which work is done with respect to time and commonly measured in units such as the watt and horsepower.
<u>Rim</u>	Portion of the waterwheel that forms the sides of the buckets. It is also known as the shroud.
<u>Shoe</u>	Tapered wooden trough, which is oscillated by the damsel to feed grain into the millstones for grinding.

<u>Shut</u>	Also called “control gate”
<u>Tail water</u>	Water leaving the waterwheel.
<u>Technology</u>	The ways and means that energy sources are utilized to perform work.
<u>Waterwheel</u>	A large wheel made to be turned by moving water. A waterwheel powers Yates Mill.
<u>Wheat</u>	A plant whose seed is ground to produce flour mainly for the making of breads and cakes. There are a number of types of wheat, but they are all from the <i>Triticum</i> family.
<u>Wheel</u>	A rigid circular ring connected by spokes to a hub, designed to turn around an axle passed through the center.
<u>Work</u>	Physical or mental effort or activity directed toward the production or accomplishment of something; toil; labor.

Basic Mill Terms – Wordsearch Activity – Answer Sheet

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

MILLSPEAK MATCHING

Match the letter from the right hand column with the appropriate mill saying on the left.

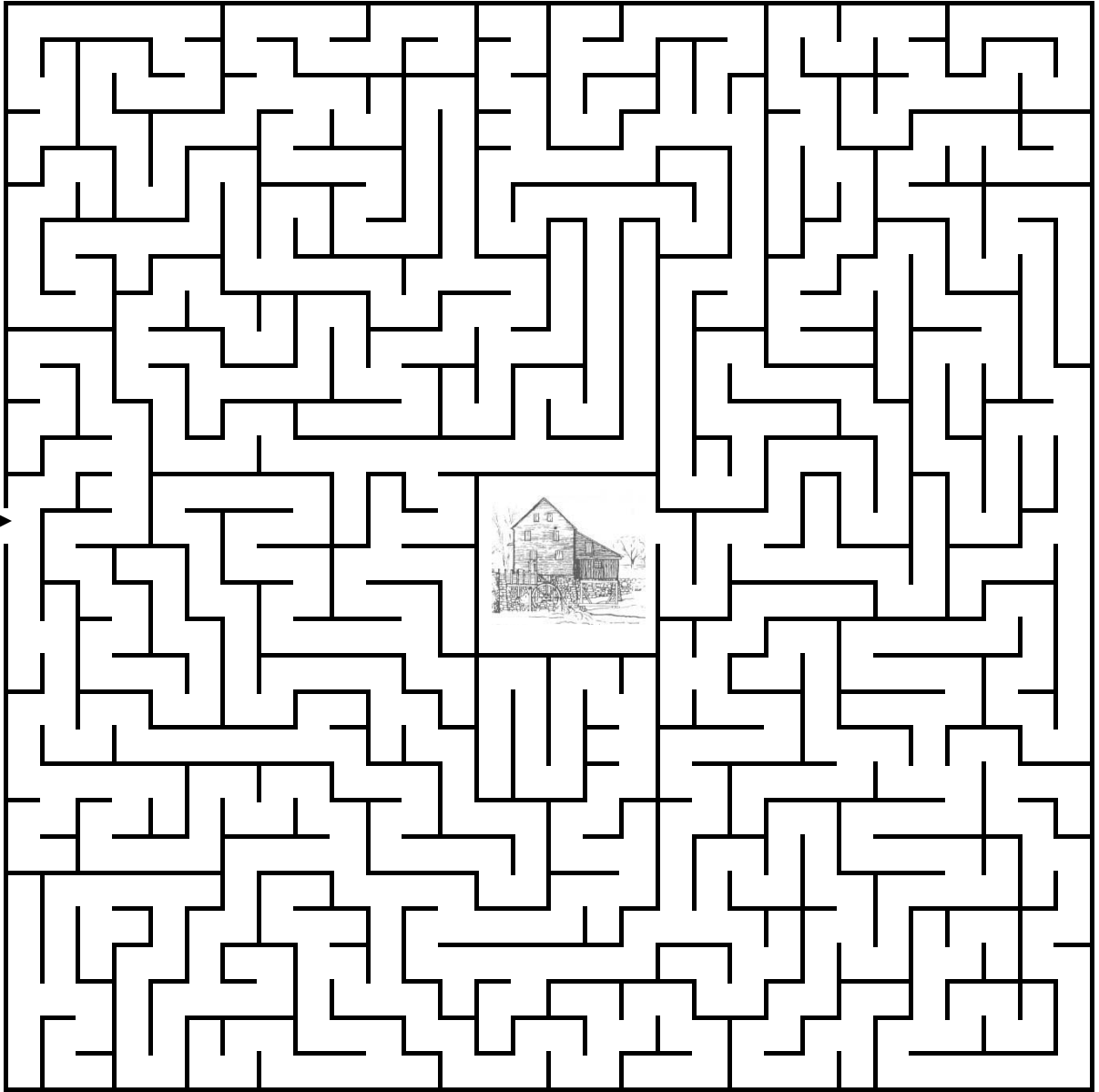
- | | |
|---|--|
| 1. ___ All's grist that comes to my mill. | a. quiet and serene. |
| 2. ___ Grind it out. | b. very clumsy. |
| 3. ___ Mill around. | c. have a tough time of it. |
| 4. ___ Mull it over. | d. the latest rumor is... |
| 5. ___ The mill cannot grind with water
that has passed. | e. I can make do with anything. |
| 6. ___ Same old grind | f. average, nothing special. |
| 7. ___ Go through the mill. | g. working very hard. |
| 8. ___ More water glideth by the mill than
wots the miller. | h. an exercise in futility. |
| 9. ___ Like the miller's mare. | i. there's no use in crying over spilled
milk. |
| 10. ___ A millstone around the neck. | j. laborious activity, gain tough yardage. |
| 11. ___ Grist to the mill. | k. boring chores or activities. |
| 12. ___ The miller's boy said so. | l. feeling very tired or run down. |
| 13. ___ Have windmills in your head. | m. wander aimlessly. |
| 14. ___ Nose to the Grindstone | n. to avoid work, stay away from it. |
| 15. ___ As calm as a millpond. | o. think about it more carefully. |
| 16. ___ To weep millstones. | p. something profitable. |
| 17. ___ To tilt at windmills. | q. be a little bit daft. |
| 18. ___ The horse next to the mill carries all
of the grist. | r. the boss doesn't know everything that
goes on around here. |
| 19. ___ Run-of-the-mill. | s. an enormous liability. |
| 20. ___ Run through the mill. | t. show no concern at all. |

MILLSPEAK MATCHING — ANSWER KEY

Match the letter from the right hand column with the appropriate mill saying on the left.

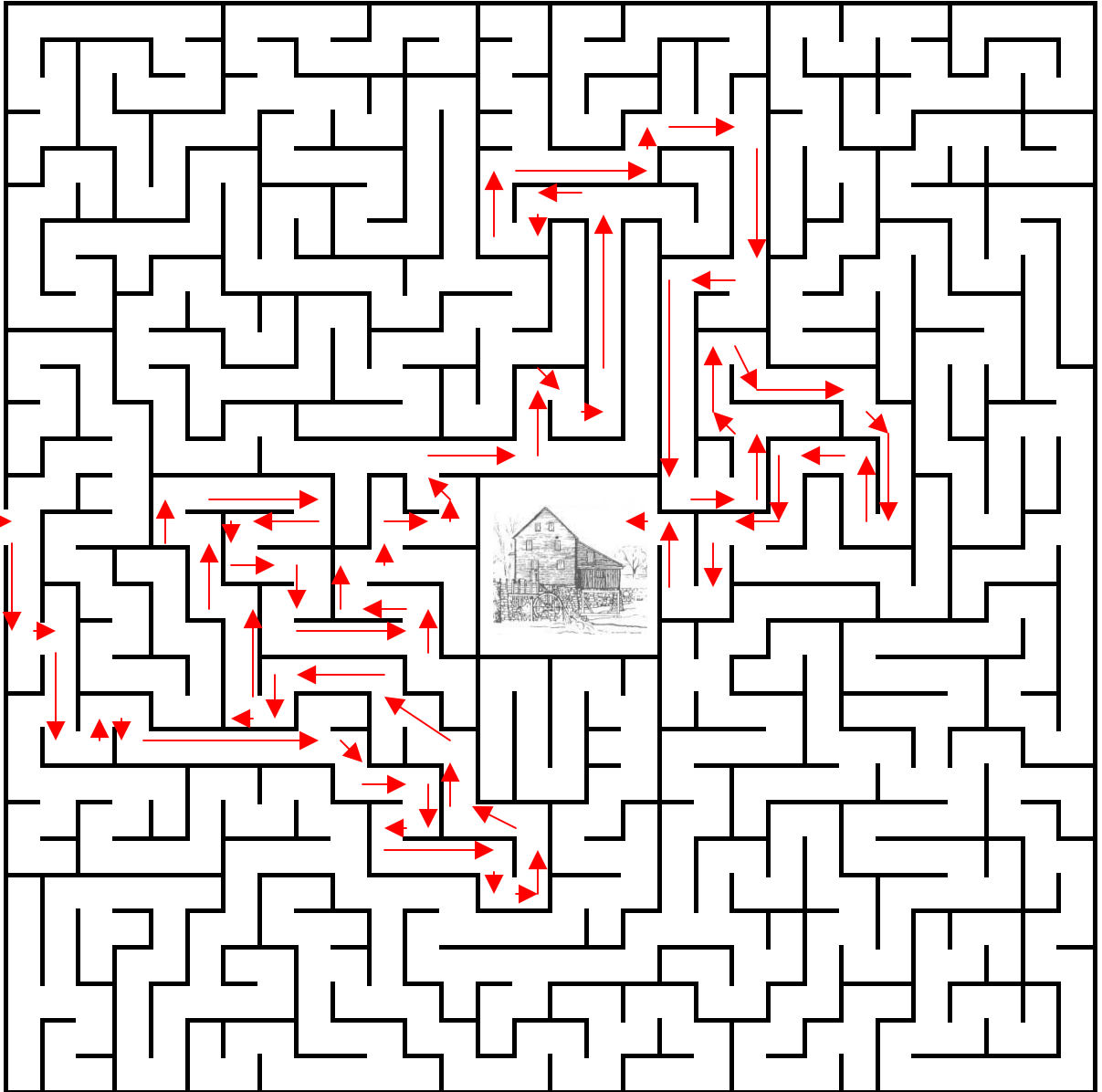
- | | |
|---|---|
| 1. <u>e</u> All's grist that comes to my mill. | a. quiet and serene |
| 2. <u>j</u> Grind it out. | b. very clumsy. |
| 3. <u>m</u> Mill around. | c. have a tough time of it. |
| 4. <u>o</u> Mull it over. | d. the latest rumor is... |
| 5. <u>i</u> The mill cannot grind with water that has passed. | e. I can make do with anything. |
| 6. <u>k</u> Same old grind. | f. average, nothing special. |
| 7. <u>c</u> Go through the mill. | g. working very hard. |
| 8. <u>r</u> More water glideth by the mill than wots the miller. | h. an exercise in futility. |
| 9. <u>b</u> Like the miller's mare. | i. there's no use in crying over spilled milk. |
| 10. <u>s</u> A millstone around the neck. | j. laborious activity, gain tough yardage. |
| 11. <u>p</u> Grist to the mill. | k. boring chores or activities. |
| 12. <u>d</u> The miller's boy said so. | l. feeling very tired or run down.. |
| 13. <u>q</u> Have windmills in your head. | m. wander aimlessly. |
| 14. <u>g</u> Nose to the Grindstone | n. to avoid work, stay away from it. |
| 15. <u>a</u> As calm as a millpond. | o. think about it more carefully. |
| 16. <u>t</u> To weep millstones. | p. something profitable. |
| 17. <u>h</u> To tilt at windmills. | q. be a little bit daft. |
| 18. <u>n</u> The horse next to the mill carries all of the grist. | r. the boss doesn't know everything that goes on around here. |
| 19. <u>f</u> Run-of-the-mill. | s. an enormous liability. |
| 20. <u>l</u> Run through the mill. | t. show no concern at all. |

Help the Farmer find Historic Yates Mill



Help the Farmer find Historic Yates Mill

Answer Sheet



HISTORIC YATES MILL

NATURE BINGO/SCAVENGER HUNT

Find 3 in a row or the whole board

(Write the name of your discovery in the space provided under each picture)

A school might be home to a teacher.
Can you find a house for a creature?



Look up, look down,
Look all around.
Do you see any bugs in the air or on the ground?



Nature is the place to find animals.
Can you find any reptiles/amphibians or mammals?



Look to the front and to the back.
Can you find an animal track?



For a change of pace.
This is a free space.



Look in between the Weeds.
Do you see any Seeds?



Fruits and veggies are a healthy treat.
Can you find something an animal might eat?



Be very quiet and stop walking.
Can you hear a creature talking?



Plants need rain showers.
Can you find any Wildflowers?



Please remember to only observe and not disturb!

**Historic Yates Mill
Nature Bingo/Scavenger Hunt Information Websites:**

Nests:

<http://www.50birds.com/GNest1.htm>

Insects:

<http://www.bugbios.com/>

Reptiles/Amphibians/Mammals:

<http://www.kidport.com/RefLib/Science/Animals/Reptiles.htm>

<http://www.kidport.com/RefLib/Science/Animals/Amphibians.htm>

<http://www.kidport.com/RefLib/Science/Animals/Mammals.htm>

Animal Tracks:

<http://www.42explore.com/animaltracks.htm>

Seeds/Fruits and Veggies::

<http://en.wikipedia.org/wiki/Acorn>

<http://pubs.cas.psu.edu/FreePubs/pdfs/uh078.pdf>

<http://www.weedingandbirdfeeding.com/Birds.htm>

<http://www.chicagowilderness.org/wildchi/livingwild/wildland/needs/food/index.cfm>

Talking:

<http://www.birds.cornell.edu/AllAboutBirds/BirdGuide/>

<http://www.bl.uk/collections/sound-archive/wild.html>

Wildflowers:

<http://www.wildflowerinformation.org/BotanicalNames.asp>