

Meet the gritters

Norfolk Winter

Activity Sheet



The science of salt

Why do the gritters spray salt on icy roads?

When we put salt on ice, it **stops the ice from staying frozen!** Salt mixes with the ice and makes it harder for the ice to stay solid. This is called **freezing point depression**. Basically, Salt lowers the freezing point of water. That means it helps melt ice!

Try it yourself. Get an ice cube and pour some salt on it to see if it melts!

Frosty word search

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

SNOW, ICE, COLD, SKID, SLIP, FROST, SCARF, GLOVES, HAT, WINTER

Winter Quiz

1. What temperature does water freeze at?

- A) 0°C
- B) 100°C
- C) -100°C

2. Why do we grit the roads in the winter?

- A) To stop polar bears crossing the road the road
- B) To make the roads look shiny and pretty
- C) To make the roads less slippy and safer for vehicles to drive on

3. What should you wear when it's icy outside?

- A) Shorts and flip-flops
- B) A warm coat and boots with good grip
- C) A superhero cape

Answers 1.A 2.C 3.B

Did you know?

Last year Norfolk County Council and Norse Group

Used 14,800 tonnes of salt, roughly the weight of 2,500 elephants!

Covered 145,200 miles of roads, that's like driving around the world nearly 6 times!

