

## Appendix 317.1

### WIND CHILL

Children can be especially susceptible to the dangers associated with winter weather. Their youthful enthusiasm often takes over when common sense and safety should prevail. School administrators need to be sensitive to the dangers winter can pose to children. The health and safety of the children is our prime concern. The following guidelines have been developed, from the Environment Canada Wind Chill Program, to provide in-school administrators with clear direction for determining if outdoor or out of town activities are to be cancelled.

#### Wind Chill Hazard Outdoor Activity & Travel Procedures

Wind Chill (°C)	Description	Hazard	Procedure
0 to -9	Low	<ul style="list-style-type: none"> <li>◆ Slight increase in discomfort</li> </ul>	<ul style="list-style-type: none"> <li>◆ Recess/noon hour activities continue as normal.</li> </ul>
-10 to -29	Moderate	<ul style="list-style-type: none"> <li>◆ Uncomfortable.</li> <li>◆ Exposed skin feels cold.</li> <li>◆ Risk of hypothermia if outside for long periods.</li> </ul>	<ul style="list-style-type: none"> <li>◆ Recess/noon hour activities continue as normal.</li> </ul>
-30 to -35	Cold	<ul style="list-style-type: none"> <li>◆ Risk of frostbite.</li> <li>◆ Check face, fingers, toes, ears and nose for numbness or whiteness.</li> <li>◆ Risk of hypothermia if outside for long periods.</li> </ul>	<ul style="list-style-type: none"> <li>◆ Students have the option of going outside or staying inside for noon and recesses.</li> </ul>
-36 to -59	Extreme	<ul style="list-style-type: none"> <li>◆ Exposed skin may freeze in minutes.</li> <li>◆ Check face, fingers, toes, ears and nose for numbness or whiteness.</li> <li>◆ Serious risk of hypothermia if outside for long periods.</li> </ul>	<ul style="list-style-type: none"> <li>◆ Outdoor activities are cancelled.</li> <li>◆ Field trips or extracurricular trips are cancelled at -40 °C or colder.</li> </ul>
-60 and colder	Danger	<ul style="list-style-type: none"> <li>◆ Outdoor conditions are hazardous.</li> <li>◆ Exposed Skin may freeze in less than 2 minutes.</li> </ul>	<ul style="list-style-type: none"> <li>◆ Outdoor activities are cancelled.</li> <li>◆ Field trips or extracurricular trips are cancelled at -40 °C or colder.</li> </ul>

Note: The Principal of the schools has the discretion to lower these limits.

## Wind Chill Calculation Chart

Where T<sub>air</sub> = Air temperature in °C and V<sub>10</sub> = Observed wind speed at 10m elevation, in km/h.

T <sub>air</sub>	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	-50
V <sub>10</sub>												
5	4	-2	-7	-13	-19	-24	-30	-36	-41	-47	-53	-58
10	3	-3	-9	-15	-21	-27	-33	-39	-45	-51	-57	-63
15	2	-4	-11	-17	-23	-29	-35	-41	-48	-54	-60	-66
20	1	-5	-12	-18	-24	-30	-37	-43	-49	-56	-62	-68
25	1	-6	-12	-19	-25	-32	-38	-44	-51	-57	-64	-70
30	0	-6	-13	-20	-26	-33	-39	-46	-52	-59	-65	-72
35	0	-7	-14	-20	-27	-33	-40	-47	-53	-60	-66	-73
40	-1	-7	-14	-21	-27	-34	-41	-48	-54	-61	-68	-74
45	-1	-8	-15	-21	-28	-35	-42	-48	-55	-62	-69	-75
50	-1	-8	-15	-22	-29	-35	-42	-49	-56	-63	-69	-76
55	-2	-8	-15	-22	-29	-36	-43	-50	-57	-63	-70	-77
60	-2	-9	-16	-23	-30	-36	-43	-50	-57	-64	-71	-78
65	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79
70	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-80
75	-3	-10	-17	-24	-31	-38	-45	-52	-59	-66	-73	-80
80	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81

<b>FROSTBITE GUIDE</b>
Low risk of frostbite for most people
Increasing risk of frostbite for most people in 10 to 30 minutes of exposure
High risk for most people in 5 to 10 minutes of exposure
High risk for most people in 2 to 5 minutes of exposure
<b>High risk for most people in 2 minutes of exposure or less</b>