

CURRICULUM

SCIENCE KNOWLEDGE OUTCOMES

This section is for educators who want specific information regarding the grade one and three curriculum connections for each activity in *Ways of Knowing: The Senses*.

Table of Science Knowledge Outcomes

Activity	Unit	Knowledge Outcomes	Activity Topic
Activity 1 The Beat of the Drum: Vibrations	Grade 1: Senses Grade 3: Hearing and Sound	Apply particular senses in identifying/describing objects or materials provided. Recognize that sound is the result of vibration and the larger the vibration, the louder the sound.	Vibrations
Activity 2 Colours and Dye	Grade 1: Creating Colour	Identify and evaluate methods for creating colour. Predict and describe changes in colour that result from mixing primary colours. Create a colour that matches a given sample by mixing the appropriate amounts of two primary colours. Describe ways that people adapt to limited sensory abilities, i.e. snow blindness.	Primary colours
Activity 3 Getting Vocal	Grade 3: Hearing and Sound	Identify examples of vibration. Recognize that sound is the result of vibration and the larger the vibration, the louder the sound.	Vibrations, producing sound
Activity 4 Using Our Senses	Grade 1: Senses	Use a variety of senses in making general and specific observations. Apply particular senses in identifying and describing objects. Recognize limitations of our senses.	Identifying objects

Table of Science Knowledge Outcomes (continued)

Activity	Unit	Knowledge Outcomes	Activity Topic
<i>Activity 5</i> Changing Pitch	Grade 3: Hearing and Sound	<p>Recognize that sound is the result of vibration and the larger the vibration, the louder the sound.</p> <p>Recognize that pitch is the result of differences in the rate of vibration and predict how a change in rate of vibration will affect sound.</p> <p>Use sound-producing devices the student has constructed to demonstrate methods for controlling loudness, pitch and quality of sound produced.</p>	Pitch
<i>Activity 6</i> Eye-balling it	Grade 1: Senses	<p>Identify senses and explain how we use them to interpret our world.</p> <p>Identify ways that animals use their senses.</p>	Sense of Sight
<i>Activity 7</i> How Sound Travels	Grade 3: Hearing and Sound	<p>Identify examples that show that sound can travel through a variety of materials, including solids, liquids and air.</p>	Sound travelling
<i>All Activities</i> (Outcomes that match activities overall)	Grade 1: Senses Grade 3: Hearing and Sound	<p>Identify each of the senses and explain how we use our senses in interpreting the world.</p> <p>Apply particular senses in identifying and describing objects or materials provided.</p> <p>Identify examples of vibration.</p> <p>Demonstrate a variety of ways of producing sounds by using sound producing devices involving striking objects or by blowing air.</p> <p>Explain the role sound plays in communication.</p>	Senses, sound, vibrations