GRADE 4 SCIENCE: SOUND

WILDLIFE SYMPHONY

OUTCOME

• SO4.1 - Explore natural and artificial sources of sound in the environment and how those sounds are detected by humans and animals.

BACKGROUND KNOWLEDGE

- Sound is made of vibrations, or sound waves.
- Sound waves travel to our ears and make the skin of our eardrums vibrate.
- Our brain interprets these vibrations to make sense of their source.
- Animals produce a variety of sounds using different body parts.
- Humans can make lots of sounds using our voice box (larynx).

ACTIVITY: ANIMAL SONG

- 1. Go outside and have students lay quietly with their eyes closed, listening for sounds.
- 2. After ten minutes, get them to share what they heard.
- 3. Get them to lay back down and play different animal sounds.
- 4. Students guess the animal and how the sound was produced.
- 5. Make small groups and assign each group an animal sound.
- 6. They have to reproduce that sound- using voices, body parts or items from class.
- 7. Once everyone has a sound, put together a song. Teacher conducts by pointing at groups.

HEALTH/SAFETY

• During the spring, ticks can be found in the grass. Do a quick critter check once finished. The most common tick in Sask is not a major concern- simply flick the tick.More info.

EXTENSIONS

- **1. MATH (P4.1)-** Create their own wildlife song, represented however makes sense to them.
- 2. ELA (CC4.1) Compose lyrics for their songs.
- **3. PHYS ED (PE4.3)-** Create a workout routine to go with songs. Each animal noise is a different exercise.
- 4. ART- (CP4.2)- Create a dance routine to go with your songs.

MATERIALS

• A cell phone or tablet with access to the internet.

TOP TIPS

- 1. Can be done in all seasons!
- 2. Best done away from the school so as not to disturb other classes.

INQUIRY QUESTIONS

- 1. How are sounds made?
- 2. How do animals produce sounds?

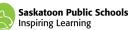
HOME CONNECTION

 Make a recycled homemade musical instrument to by played outside!

DID YOU KNOW?

Identifying animal sounds helps Meewasin to better document the biodiversity at their sites!







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TAKING IT FURTHER

- **1. EXPERTS** Invite a music teacher or family member who is musical into the class to talk more about musical sounds & song composition.
 - Invite a Meewasin interpreter to teach how to ID birds by song.
- 2. FIELD TRIPS Visit a high school band class or concert to learn more about instruments and sound production.
 - Visit a natural green space to see if more wildlife sounds can be heard.

RESOURCES

- 1. Webpage- Sound creation. Link.
- 2. Webpage- Human sound creation. Link.
- 3. Encyclopedia- Animal sound production. Link.
- 4. Video- Man making animal sounds. Link.
- 5. Software- Beast Box- Make animal music online. Link.





