

# 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.

### 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 be played outside!

### 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.

### 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](#).