

Teacher's guide



Introduction



Digital culture plays a key role in today's world. Understanding and taming it is becoming essential for educators.



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• Educational planning

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- Sound insects: interactive workbook
 - Instructions
 - Correction
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References





A. Individual progress

• Students have a Ziggy kit and a computer connected to the Internet. Everyone progresses at their own pace.

B. In-class progress

• The teacher and/or facilitator projects the activity in front of the class. The learning process is carried out in a group, in a classroom setting. The information capsules are read aloud to the students and the quizzes are taken by hand.

Chapter 1

- 1. Educational planning
 - a. Observation form
 - b. Additional activity to print and correction



Chapter 1: Educational planning

Academic level: Primary cycle 1

Themes

- Sound insects: The cicada
 - physical characteristics
 - its lifestyle
- Science and technology: introduction to micro:bit

Online quiz: observation form

- <u>Discipline</u>: English, teaching language
- <u>Skills</u>: C2 : Read a variety of texts
- <u>Criteria</u>: Explicit comprehension of a text.

Additional activity to print:

- Discipline: Mathematics
- <u>Skills :</u> C2: Reasoning using mathematical concepts and processes
- <u>Criteria:</u> Use mathematical concepts and processes appropriate to the situation

Chapter progress

- 1. Ziggy's story 1
- 2. The cicada
- 3. Lifestyle
- 4. Introduction to micro:bit
- 5. Quizz 1

Digital ressources

- <u>https://www.genielab.co</u>
- <u>https://espacepourlavie.ca/insectes-arthropodes/</u>
 <u>cigales</u>
- •

Literature ressources

- Les bestioles d'ici
- Le guide complet des insectes et des araignées
- <u>Le fan club des petites bêtes</u>
- Les petites bestioles du Québec
- Les insectes en bande dessinée

Observation form: read a variety of texts

Quizz 1: Observe explicit comprehension of a text.

| Understanding significant elements of a text | Achieved | Not achieved |
|--|--|--------------|
| Complete the following sentence: Ziggy is a | A (Cicada) | B or C |
| Why do you think Ziggy cannot sing? | B (Ziggy is a female cicada. Female cicadas cannot sing.) | A or C |
| What is a micro:bit? | B (What is a micro:bit?) | A or C |

Additional activity to print: correction

Ziggy and the rock maze

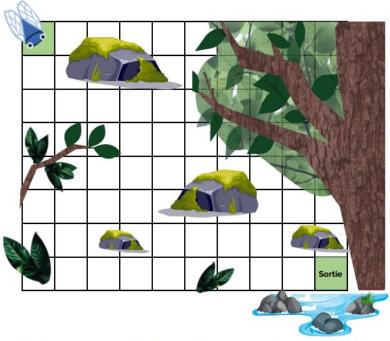
Additional math activities on the theme of ziggy.

Mathematics primary cycle 1

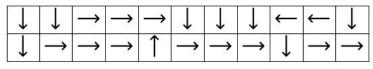
- Skills: 2 Reasoning using mathematical concepts and processes
 - Component: Use mathematical concepts and processes appropriate to the situation
 - Domain: Geometry, spatial sense
 - locating on a map

Chapitre 1: Ziggy et le labyrinthe de rochers

Aide Ziggy à se rendre à la rivière en évitant les obstacles.



Dessine à l'aide de flèches, la route que doit prendre Ziggy afin de se rendre à la rivière. Exemple : →↓↑↑



Chapter 2

1. Educational planning







Academic level : Primary cycle 1

Themes

- Sound insects: field cricket
- Science and technology: the accelerometer
- Science and technology: Using a micro:bit to follow instructions in a game.

Chapter progress

- 1. Ziggy's story 2
- 2. The grasshopper
- 3. Description of an accelerometer
- 4. Game 1: Repeat after me

Digital ressources

- <u>https://www.genielab.co</u>
- <u>https://mffp.gouv.qc.ca/jeunesse/chant-insect</u>
 <u>es-difference-grillon-sauterelle-criquet/</u>
- <u>https://espacepourlavie.ca/insectes-arthropo</u>
 <u>des/criquet-des-champs</u>

Literature ressources

- Les bestioles d'ici
- Le guide complet des insectes et des araignées
- Le fan club des petites bêtes
- Les petites bestioles du Québec
- <u>Les insectes en bande dessinée</u>

Chapter 3

- 1. Educational planning
- 2. Additional activity to print:
 - a. Grasshopper body parts
 - b. Correction





Academic level: Primary cycle 1

Thème

- Sound insects: the grasshopper
- Science and technology: LED display
- Science and technology: Using a micro:bit to follow instructions in a game.

Additional activity to print: <u>Grasshopper body parts</u> -

<u>correction</u>

- <u>Discipline</u> : English, teaching language
- <u>Skills</u>: C2 : Read a variety of texts
- <u>Criteria</u> : Explicit comprehension of a text.

Chapter progress

- 1. Ziggy's story 3
- 2. The locust
- 3. LED display
- 4. Game 2: Touch-sensitive music

Digital ressources

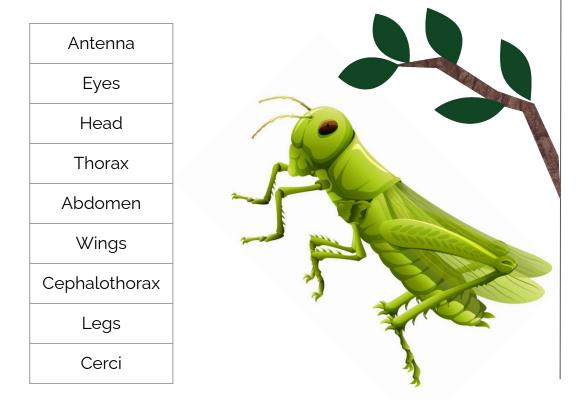
- <u>https://www.genielab.co</u>
- <u>https://makecode.microbit.org/</u>

Literature ressources

- Les bestioles d'ici
- <u>Le guide complet des insectes et des araignées</u>
- <u>Le fan club des petites bêtes</u>
- Les petites bestioles du Québec
- <u>Les insectes en bande dessinée</u>

Chapter 3: The locust's body parts

Read the following text and use arrows to link the names to the grasshopper's body parts.

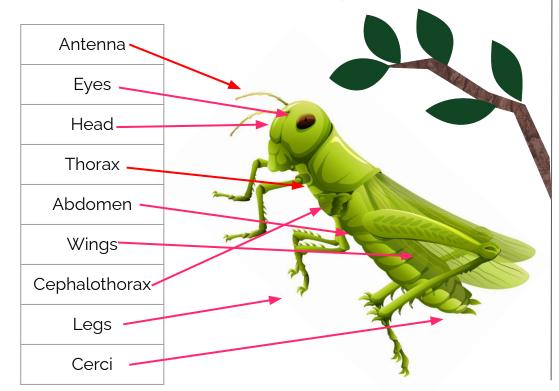




The locust has a small **head**, bright eyes and slender antennae. Its body is slender and elongated. It is divided into three parts: the **thorax**, the **abdomen** and the small piece in between, called the **cephalothorax**. The tiny wings are on its back. It has long, muscular hind **legs**. It also has shorter front legs to catch its food. The **cerci** are small. filament-like structures at the back of the abdomen.

Chapter 3: The locust's body parts

Read the following text and use arrows to link the names to the grasshopper's body parts.



Correction

The locust has a small **head**, bright eyes and slender antennae. Its body is slender and elongated. It is divided into three parts: the **thorax**, the **abdomen** and the small piece in between, called the **cephalothorax**. The tiny wings are on its back. It has long, muscular hind **legs**. It also has shorter front legs to catch its food. The **cerci** are small. filament-like structures at the back of the abdomen.

Chapter 4

- 1. Educational planning
- 2. Additional activity:
 - a. Make your own castanets







Academic level : Primary cycle 1

Theme

- The music
- Science and technology: buttons and conductive pads

Additional activity: <u>Create your own musical</u> instrument

• A 45-minute activity to create castanets with simple materials.

Chapter progress

- 1. Ziggy's story 4
- 2. The music
- 3. Description of the conductive pad

Digital ressources

- <u>https://www.genielab.co</u>
- <u>https://makecode.microbit.org/</u>

Literature ressources

- Les bestioles d'ici
- <u>Le guide complet des insectes et des araignées</u>
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- <u>Les petites bestioles du Québec</u>
- Les insectes en bande dessinée

Make your own castanets!!!

Creating a musical instrument with materials from home?!

Materials:

Cardboard sheets or cardboard packaging Scissors

Glue or paper tape

4 Bouchons ou capsules de métal

4 Metal stoppers or caps, ...

Instructions :

Step 1: Cutting the shapes

- Draw two squares or rectangles of equal size from the cardboard sheets. These will be the main part of the castanets.
- Cut the shapes.

Step 2: Decoration (optional)

- Before assembling the castanets, decorate their cardboard pieces with crayons, stickers, glitter, etc.

Step 3: Assembling

- Glue a cork to each end of the cardboard pieces.

Step 4: Pressing and drying

- Press the two pieces of cardboard and the plugs firmly together.
- Let it dry

Step 5: Creating handles

- Once the glue is dry, cut two strips of cardboard about 2-3 cm wide and the length of the castanet.
- Glue one end of each cardboard strip to the outside of the castanets, leaving the other end free to act as a handle.

Step 6: Game

- By tapping the castanets together, you can create fun sounds by rattling them.

Chapter 5

- 1. Educational planning
- 2. Additional activity:
 - a. The cicada and the ant, the moral
 - b. Observation form





Academic level : 1er cycle du primaire Theme:

- Discovering a variety of texts
 - La Fontaine's fable, the cicada and the ant
- Science and technology: Using a micro:bit to follow instructions in a game.

Évaluation:

The cicada and the ant, the moral

- <u>Discipline</u> : Ethics and religious culture
- <u>Skills</u>: C1 : Reflecting on ethical issues
- <u>Criteria</u>: Moral understanding Participating in discussions Creativity in activity

Chapter progress

- 1. Ziggy's story 5
- 2. The cicada in literature
- 3. Game 3: Musical awakening

Digital ressources

- <u>https://www.genielab.co</u>
- <u>https://makecode.microbit.org/</u>

Literature ressources

- Les bestioles d'ici
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- <u>Le fan club des petites bêtes</u>
- Les petites bestioles du Québec
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The cicada and the ant, the moral

Activity objective : Understand the moral of the fable "The Cicada and the Ant" while taking part in fun, creative activities.

Duration: About 45 minutes

Materials required :

- An adapted and illustrated version of the fable.
- Sheets of paper and coloured pencils.

Process:

Introduction (10 minutes) :

• Gather the children in a circle and briefly explain that they are going to take part in an activity based on a fable called "The Cicada and the Ant". This can be done before or after Chapter 5.

<u>Reading the fable (10 minutes) :</u> Read or tell children an adapted, illustrated version of the fable "The Cicada and the Ant".

<u>Discussion (10 minutes)</u> : After reading the fable, ask questions to help children understand the moral of the story. Ask them why the ant had foresight and why the cicada had a hard time in winter.

<u>Creative activity</u> : Create your own cicada or ant (20 minutes) :

- Distribute sheets of paper and crayons to the children.
- Ask the children to draw a cicada or an ant based on the story.

Conclusion and final discussion (10 minutes) :

- Gather the children in a circle and ask them what they've learned from the story of the cicada and the ant.
- Briefly summarize the moral of the story: "It's important to be far-sighted and prepare for the future, like the ant, rather than thinking only of immediate pleasure, like the cicada."
- Encourage children to think of everyday situations where this lesson might apply.



Observation form: The cicada and the ant, the moral

| ECR | Skills 1 : Reflecting on ethical issues | | | | | | |
|---------------------------------|--|--|---|--|--|--|--|
| Observation criteria | Level 4 (Excellent) | <u>Level 3 (Good</u> <u>knowledge)</u> | <u>Niveau 2 (In development)</u> | <u>Niveau 1 (To improve)</u> | | | |
| Moral understanding | Fully understands the moral of the story and explains it in pertinent detail. | Understands the moral of the story and can give an adequate explanation. | ry and can give an morality, but may need a few understanding or | | | | |
| Participating in discussions | | | Sometimes takes part in discussions, but doesn't often take the initiative. | Generally avoids discussions and rarely contributes. | | | |
| Creativity in activity | Shows great creativity in creating detailed, imaginative drawings, demonstrating a thorough understanding of the story. | Demonstrates creativity by creating interesting and relevant drawings related to the story. | Shows some creative elements in the drawings, but may lack detail or originality. | The drawings lack creativity and relevance to the story. | | | |

Bonus

• Sound insects: the interactive workbook



Instructions

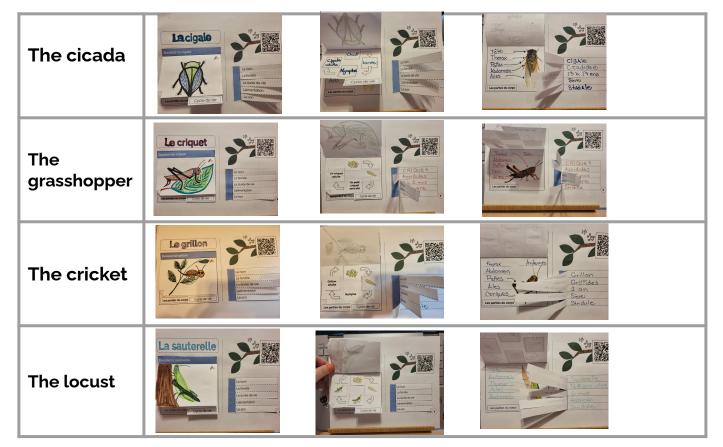
What is an interactive workbook :

• An interactive notebook combines traditional note-taking elements with interactive ones to make learning more engaging, interactive and personalized. This can improve understanding and retention of information, as well as promoting collaboration between students.

Sound insects, interactive workbook:

- Our notebook is organized like a small booklet, printed on both sides and folded in half. It is composed of 4 sections: the cicada, the cricket, the cricket and the grasshopper. In the appendix, you'll find a notebook to cut out to complete the interactive workbook.
 - Print one booklet and one cut-out notebook per student.
 - Cut out the dotted tables and paste them in the appropriate section of the interactive notebook.
 - Use the word bank to fill in the blanks.
 - Use the answer key on the next page as a guide.



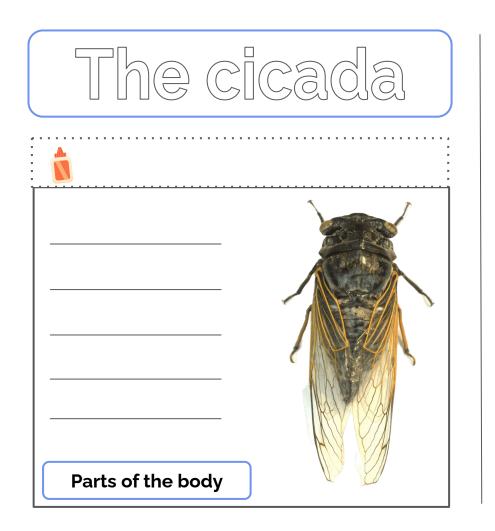


Sound insects

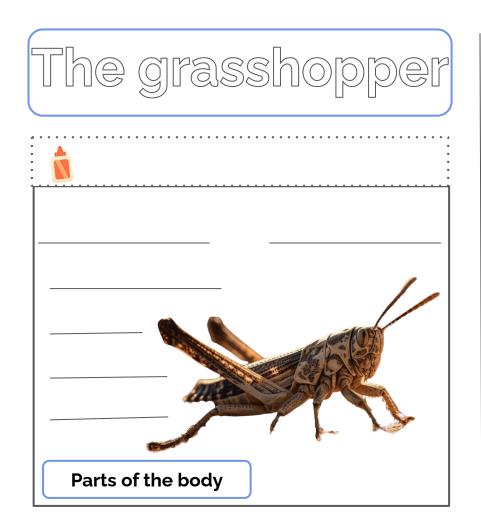
The interactive notebook

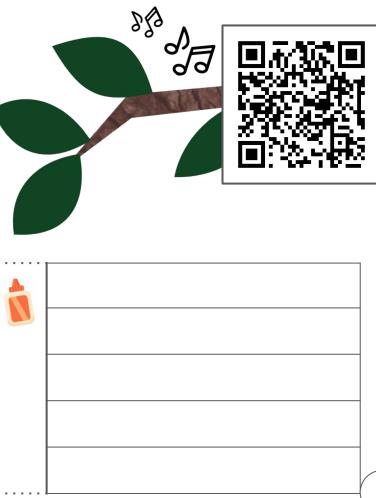
Continue Ziggy's adventure by completing your interactive notebook with colored pencils, glue and scissors.

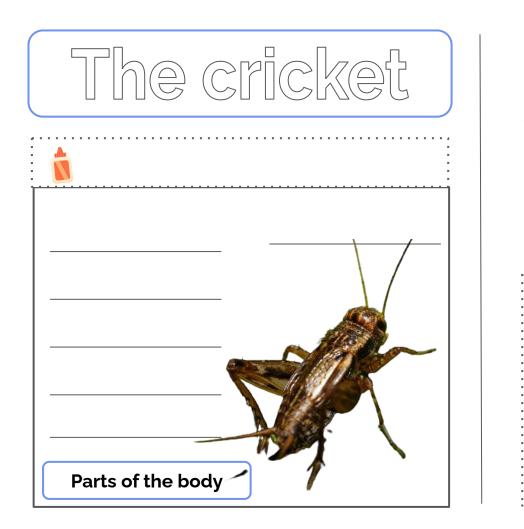


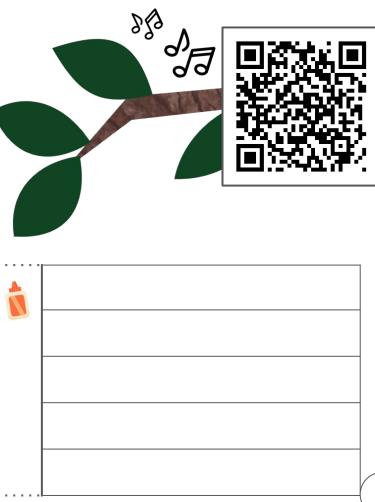


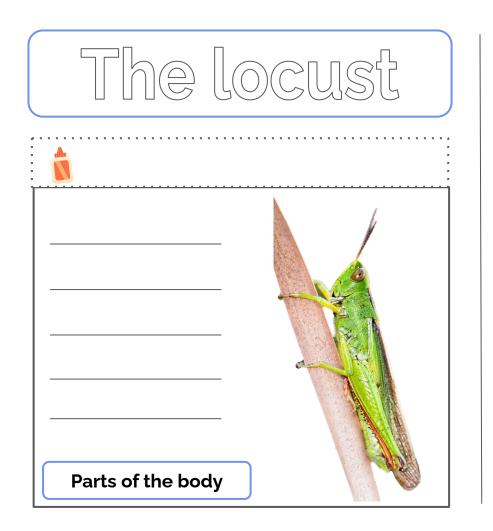








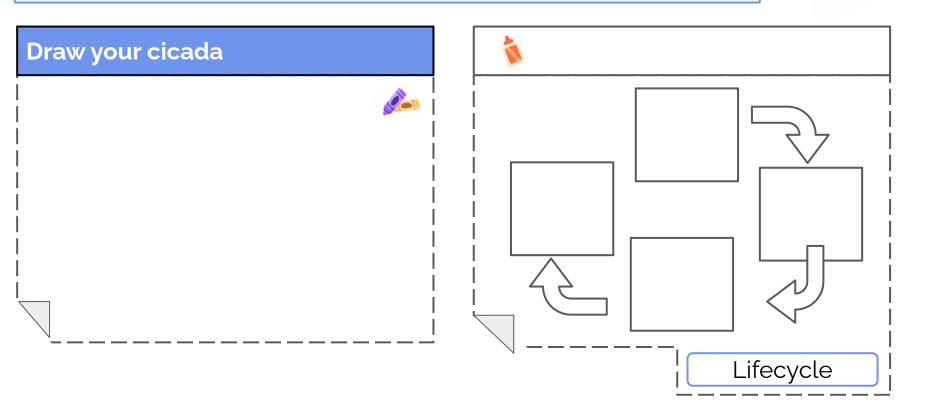






Cut-out notebook Interactive notebook appendix

The cicada: Cut out the following shapes and stick them on the appropriate card in your interactive notebook.



The cicada: Cut out the following shapes and stick them on the appropriate card in your interactive notebook. (continuation)



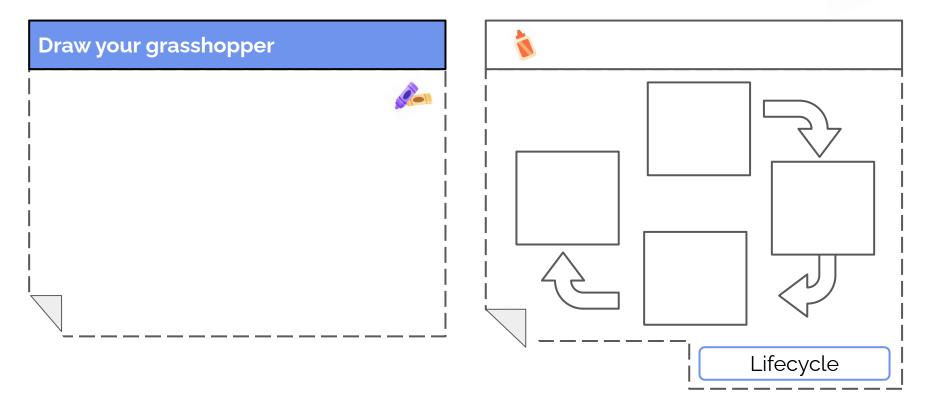
| The name |
|--------------|
| The family |
| The lifetime |
| The diet |
| The sound |

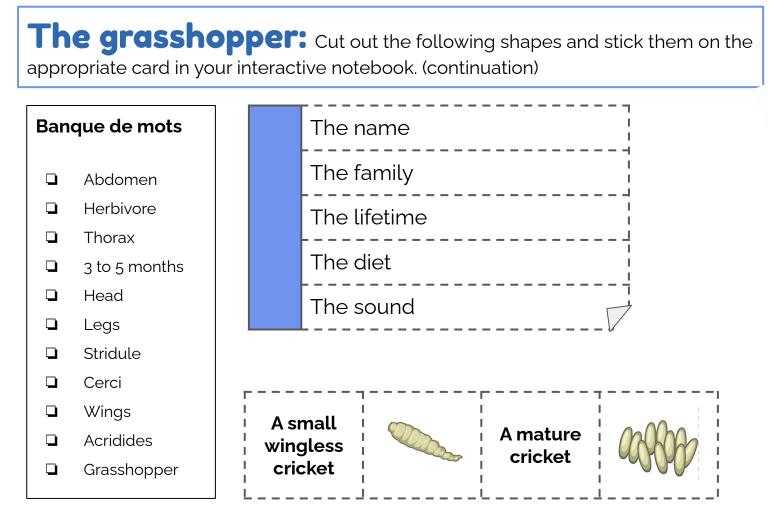


. .

The grasshopper: Cut out the following shapes and stick them on the appropriate card in your interactive notebook.

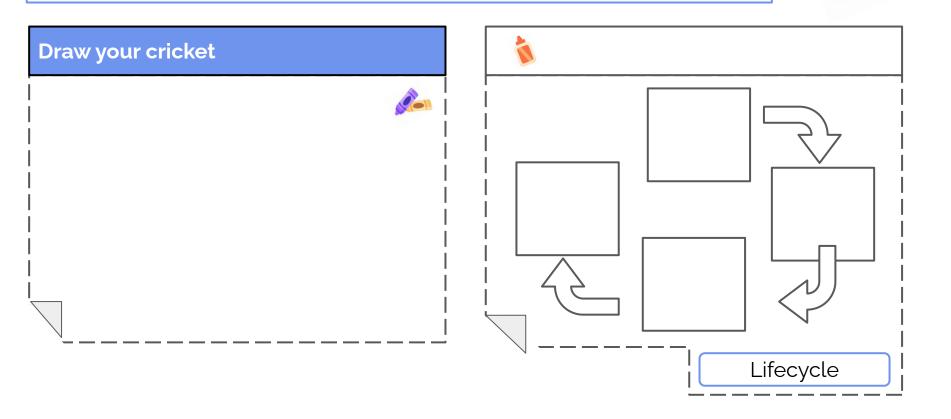


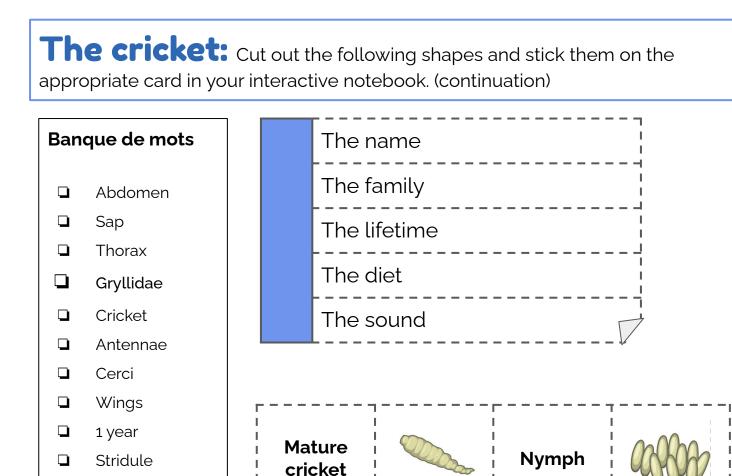






The cricket: Cut out the following shapes and stick them on the appropriate card in your interactive notebook.



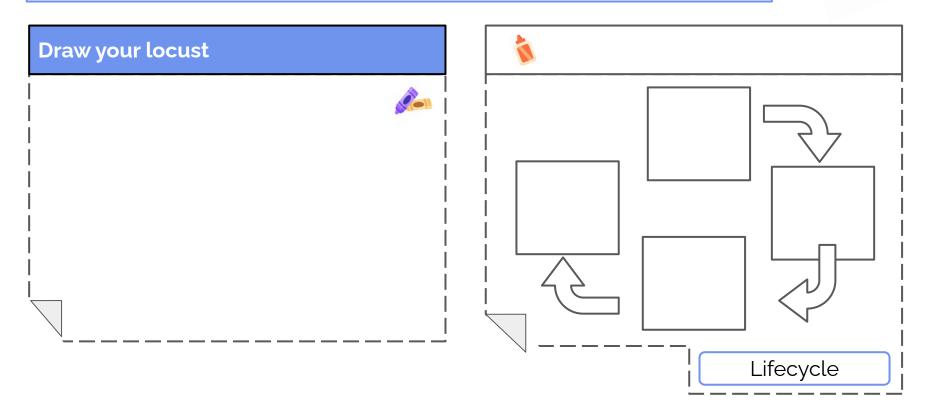


Legs

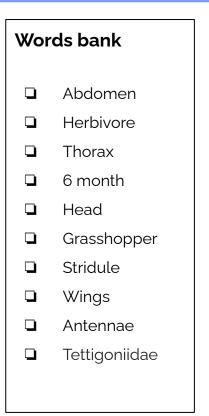
Omnivore



The locust: Cut out the following shapes and stick them on the appropriate card in your interactive notebook.



The locust: Cut out the following shapes and stick them on the appropriate card in your interactive notebook. (continuation)



| | | The | name | | | |
|---------------|----|-------|----------|------|----------|------|
| | | The | family | | | |
| | | The l | lifetime | | | |
| | | The | diet | | | |
| | | The s | sound | | | |
| | • | | | | | |
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| I I L . | | | | 26 | | |



The end

You have completed the activity.

Congratulations!



Bibliography

Literature ressources

- Les bestioles d'ici
- <u>Le guide complet des insectes et des araignées</u>
- Le fan club des petites bêtes
- <u>Les petites bestioles du Québec</u>
- Les insectes en bande dessinée

Digital ressources

- <u>https://espacepourlavie.ca/insectes-arthropodes/cigales</u>
- https://www.sirtin.fr/2011/03/13/dou-vient-la-cymbalisation-des-cigales/
- <u>https://www.animateur-nature.com/connaissances_faune_et_sujets_generaux/cigale.php</u>
- <u>https://mffp.gouv.gc.ca/jeunesse/chant-insectes-difference-grillon-sauterelle-criquet/</u>

Visual resources

• <u>https://fr.freepik.com</u>

génielab. PROPULSER LA CRÉATION NUMÉRIQUE