

# Creating the context

## I ask myself questions

1. What is biofuel?

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2. What is a moratorium?

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3. What are the economic issues in this case study?

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4. What are the environmental issues in this case study?

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5. Name an ethical issue raised by this case study.

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Name: \_\_\_\_\_

Group: \_\_\_\_\_

## Creating the context *(continued)*

6. Who are the main players in this case study?

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7. What questions should guide you in your information gathering on biofuel production?

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### I must

8. Reformulate the goal of the case study.

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Name: \_\_\_\_\_

Group: \_\_\_\_\_

## Creating the context *(continued)*

### I think

9. Do you think there should be a moratorium on biofuel production?

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### What I know and what I must find out

10. Write the information you already know and the information you need to find out.

What I know	What I must find out
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Name: \_\_\_\_\_

Group: \_\_\_\_\_

## Creating the context *(continued)*

### I prepare my work

11. Where will you find the information you need to carry out this case study?

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12. Define the main steps of the case study in chronological order.

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### Reflection

Yes      No

Do I fully understand what I have to do?

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Name: \_\_\_\_\_

Group: \_\_\_\_\_

# Gathering information

## I do research

1. What is the lithosphere?

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2. What are soil horizons?

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3. What are the properties of fertile soil?

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4. Can producing ethanol biofuel contaminate the lithosphere? If so, explain your answer.

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Name: \_\_\_\_\_

Group: \_\_\_\_\_

## Gathering information *(continued)*

5. What is the hydrosphere?

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6. How do fertilizers and pesticides contaminate waterways?

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7. What is the atmosphere?

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8. How is solar energy distributed around the Earth?

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Name: \_\_\_\_\_

Group: \_\_\_\_\_

## Gathering information *(continued)*

9. Define the greenhouse effect.

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10. How can biofuel production disrupt biodiversity?

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11. Define *trophic relationships*.

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12. Can the use of biofuels be at the root of ecological disturbances? If so, explain your answer.

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13. Highlight the information you think is relevant in your information documents. Copy this information in the tables in questions 14 and 15. Distinguish the advantages of biofuel production from its disadvantages.



## Gathering information *(continued)*

## I apply my research results

**14.** What are the advantages of producing biofuels? Copy your information in the table below.

[illegible]

## Gathering information *(continued)*

**15.** What are the disadvantages of producing biofuels? Copy your information in the table below.

[illegible]

## Reflection

Do I fully understand the technological concepts covered in this case study?

Yes

No

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## Completing the case study

## I make suggestions

After completing your research, write your letter to the Prime Minister. Remember to present your arguments and cite your sources.

[illegible]

## Completing the case study *(continued)*

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## Reflection

Have I considered other approaches?

Yes

No

☐☐

# Validating the case study

## I justify my approach

1. What information sources did you use to prepare your arguments? Make sure you cite them correctly.

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2. Do you think your sources are reliable? Justify your answer.

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3. Name at least one disadvantage of the position you have defended in your letter.

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