



Worksheet: Hands off!



Step 1

Explain in your own words; what's the problem?

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Step 2

Ask nature!

How does nature solve this problem? How do plants and animals ensure that they are not eaten? Do you know examples? Write them down.

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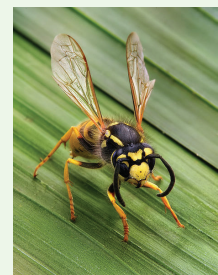
Now you are going out.

You can look outside at plants or animals. What do you choose?

- Plant research
- Animal testing

Time left?

Then get started with the other research.



Plant research

Walk across the schoolyard and look for different types of plants. Do you see plants that you do not want to touch? How did that happen? Draw them here. Write below why you do not want to touch them.



1	2
3	4

Feel different leaves, branches and seeds. Which do not feel nice? How did that happen? Also smell. Are there plants that do not smell good? Draw them here. Write with one word why they do not feel nice/smell.

1	2	3	4
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You have now looked at a number of plants, felt or smelled. Suppose you are a rabbit. Which of these leaves would you choose **not** to eat?

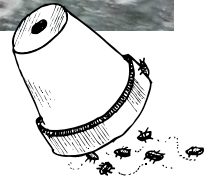


Leaf I do not eat because

 Leaf I do not eat because

Animal testing

Walk across the schoolyard and look for small animals. For example, look at the underside of leaves or under stones. How many different creatures did you find?



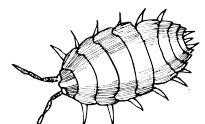
Choose 2 bugs. Put them in a bowl or dish. You are now going to look at them very well, and take a picture of them.

	Bug 1	Bug 2
What is striking about this little creature?		
What colour does he have?		
Was he easy to find? Why yes or why not?		

Now try carefully if you can touch the creature.

	Bug 1	Bug 2
Is the creature hard or soft?		
What does he do when you touch him?		
How does this animal protect itself against animals that want to eat it?		

Ready? Put the creatures back where you found them. Now go back in again.





Organize

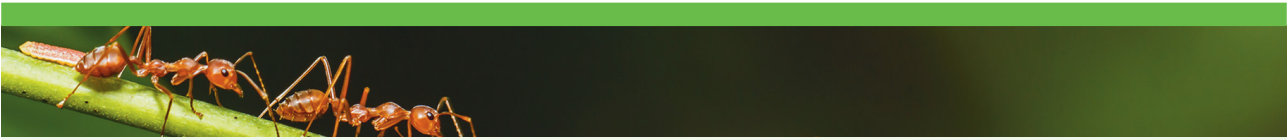
You have just researched outside how animals and plants ensure that they are not eaten. Which solutions did you find outside? Write them in the table. You can think of different solutions to the problem. Soon you will make a design yourself and then carry out this design. That is why it is important to consider which of these solutions you could make yourself with the craft supplies in the classroom. You can fill that in the last column.

Solutions for not being eaten	Which plant or animal does this also?	How well does it work?

What do you think is the best solution? Put a small arrow in front of it.

Now take a good look at the snack. How do you ensure that other children stay away from it? Which solution can you best use for your item? Put a big arrow in front of it.





Step 3

Create a design

Make a drawing of your solution. This is your design. Write which stuff you need. Also think of tools. Discuss your design with the teacher or master.

Design drawing

[Large empty box for drawing]

We need this

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Step 4

Build

Grab the snack and build your design around it. When you have finished building you can look at the design again if you see something that you would still like to improve.

Step 5 & 6

Testing & presenting

Now you will test all solutions. View the solutions of the other groups. Would you like to take this snack away? Enter table.

**Which plant or animal does this solution think?
Do you recognize an animal or plant in it?**

**Does this solution
work well?**

**Could you make this solution
even better? If so, how?**

GROUP 1



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GROUP 2



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GROUP 3



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GROUP 4



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GROUP 5



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GROUP 6



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GROUP 7



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GROUP 8



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Step 7

And now?

You have now seen several solutions. Would you like to change your own design? If so, how?

[Large empty white rectangular area for writing answers to the question above.]

Are there other things that you want to research or design now? If so, what?

[Large white rectangular area with horizontal dotted lines for writing answers to the question above.]

