

REPORT WRITING PROJECT

Teacher Notes

For students learning how to write, it's often a hurdle to figure out how to organize information and to communicate in a clear, logical progression. PestWorldforKids.org developed this manual for teaching your students how to take and organize notes into a written research report. Because there are many ways to communicate knowledge and it makes little sense to anyone to just write a report for the sake of writing a report, we've included several suggestions and templates for projects that provide students with ideas to use their report to inform their community about pests.

How to Use This Procedure and PestWorldforKids.org

This 10-step procedure for taking notes, organizing notes, and writing a research paper is presented in a "manual" form. The manual is written at a fifth grade level so older students may follow along independently or with a partner. Alternatively, you may use the manual as a script to directly teach the procedure to students of all ages. By the end of ninth step, your students will have written and revised a multi-paragraph research paper, complete with an introduction and conclusion.

The manual is available online at <u>http://www.pestworldforkids.org/reports.html</u>. There, students may follow each step as well as access the PestWorldforKids.org "Pest Guide": <u>http://www.pestworldforkids.org/guide.html</u>

If your students have limited access to computers, a PDF version is available for download at http://www.pestworldforkids.org/reports-studentmanual.pdf

A template for taking notes may be downloaded from: <u>http://www.pestworldforkids.org/reports-notecards.pdf</u>

Correlations with National Council of Teachers of English Standards

Standard 1: Students read a wide range of print and non-print texts ... to acquire new information; to respond to the needs and demands of society and the workplace; and for personal fulfillment. Among these texts are fiction and nonfiction, classic and contemporary works.

Students will use the PestWorldforKids.org Research Center to acquire new information about a specific pest.

Standard 3. Students apply a wide range of strategies to comprehend, interpret, evaluate, and appreciate texts. They draw on their prior experience, their interactions with other readers and writers...

Students are prompted to recall their prior knowledge as well as share their written work with other students to check for clarity.

Standard 5. Students employ a wide range of strategies as they write and use different writing process elements appropriately to communicate with different audiences for a variety of purposes.

The procedure used in the PestWorldforKids Research Manual invokes several elements of the writing process including pre-writing (recalling prior knowledge), drafting, revising, and publishing.

Standard 7. Students conduct research ... by generating ideas and questions... They gather, evaluate, and synthesize data ... to communicate their discoveries in ways that suit their ... audience.



REPORT WRITING PROJECT

Estimated Instructional Time:

Each of the first nine steps should take up one instructional period of about 30 – 50 minutes, depending on your students' age. The last step, "Sharing Your Work", should take several days, depending on the projects your students have chosen.

Materials

- Access to computers with an Internet connection or copies of downloaded PDF files (see Getting Ready, Step 1 below).
- Several 3" x 5" index cards or copies of the note card template (see "Handouts" below). Plan on each student taking the following number of notes:
 - Grades 1 2: 5 to 10 notes
 - Grades 3 5: 15 to 30 notes
 - Grades 5 8: 30+ notes
- Writing paper
- Paper clips to keep notes in stacks.
- Rubber bands to keep stacks in one pile.
- OPTIONAL: if you are using the note card template, students should have access to scissors to cut note cards apart.

If you are teaching the procedure to your class as a whole, it's helpful to have these additional items:

- Overhead Projector
- Transparencies of a 3" x 5" index card or the note card template (see "Handouts" below).

Getting Ready:

 Arrange for time in a computer lab or access to a mobile lab. The amount of time students will spend using the PestWorldforKids website will vary according to whether they will follow the procedure online or just use the website for their research.

Alternatively, you can download the manual and specific pest information as a PDF files and copy them for your students to use offline.

You can access the manual at <u>http://www.pestworldforkids.org/handout-reportmanual.pdf</u> You can access information on over 20 animals at <u>http://www.pestworldforkids.org/guide.html</u>

- 2) Create a supplies section for students to get index or note cards, paper clips, rubber bands, etc. as they're needed.
- 3) Schedule at least nine sessions for students to complete their research, note taking, and writing. Additional projects will take at least two to five or more sessions, depending on the project's complexity.

- Cut out each notecard.
 Under "What?", write your note just the main idea, not a complete sentence.
 Under "Why?", write the reason this idea is important to know or why you think it is interesting.
 Sort the notes into topics.
 Write first few letters of the note's topic in the upper right corner. Then number the notes in each topic.



REPORT WRITING PROJECT

Script for Direct Instruction or Student Independent Work

Assignment: Become a Pest Expert

We deal with pests all the time. But how can you prevent them from taking over your home?

Select a pest from any of the more than 20 animals featured on PestWorldforKids.org. Then, follow our 10-step procedure for researching and communicating your new knowledge.

In fact, why not share your new knowledge with others? Maybe you'll want to publish a research report for your school library. Maybe you'd like to make a digital slideshow for a PTA meeting. Or maybe you'll want to script a Public Service Announcement to broadcast during your school's morning announcements.

No matter what project you'd like to do, you first need to do a little research and a bit of writing. Research writing may seem like a lot of work, but if you follow a few simple steps you'll be amazed about how much you can learn.

Step 1: Getting Ready: Getting Supplies, Choosing a Subject, and Finding Sources

Get Supplies

Besides a pencil or pen and paper, you should have a bunch of note cards ready. You can download a template for taking notes: www.pestworldforkids.org/reports-notecards.pdf

Consider Your Audience

Consider your eventual audience. Think about how detailed your project should be. How will you keep your information organized so you don't loose anything?

Choosing A Subject

Subjects should be narrow. Instead of writing about all types of "pests", think about a particular pest that you believe is important to learn about.

To help you figure out how to take and organize your notes, we'll use the subject of "hornets" as an example.

Finding Sources

Your first stop is the pest guide section: <u>www.pestworldforkids.org/guide.html</u> There, you'll find piles of information you can use to research your subject.

Step 2: Think of what you already know

You might ask: Why do I need to do this? If I already knew something, why bother researching it?

When you think about what you already know, you're preparing your brain to make connections between the information you already know and new information. Making connections is the best way to remember new information as well as checking to make sure what you read makes sense.

For example, you might know that there are different types of wasps but that you just learned that European Hornets are the only type that will fly at night. Or perhaps you knew that wasps were social insects but didn't know that female workers were the only type of wasp that leaves the hive to find food. Connecting this new information to what you already know will help you remember it.



REPORT WRITING PROJECT

Step 3: Take Lots of Notes

Take Notes On What You Know

When taking notes, start with the information you already know from step 2. Write just the key ideas – don't worry if your notes are not complete sentences. That comes later. Use just one note card for each idea.

What?	PESTWORLD FOR KIDS	TOPIC NUMBER
people	are cau	tious
arounc	d hornets	5
	www.pestworldforkids.org	YOUR INITIALS

As you take notes, think of why the information is important. Add this information to the "**Why**?" section of your notecard.

For example, why are people cautious around hornets? Because they can sting several times.

What?	PESTWORLD FOR KIDS	TOPIC NUMBER
people	e are caut	ious –
aroun	d hornets	
why?	covoral ti	mor -
Source	Several til	YOUR INITIALS



REPORT WRITING PROJECT

All this thinking work now will help you when its time to write later. You don't need to add reasons "why" for everything you note. Aim to add the "why" information for every two or three note or when you think it's important.

Take Notes As You Read

Once you've added all that you can remember, continue to take the same types of notes as you read. Don't take notes on EVERYTHING – you won't have time. Instead, only take notes on the information that you find important or really interesting. And, again, only add the key idea. You don't need to write notes in complete sentences.

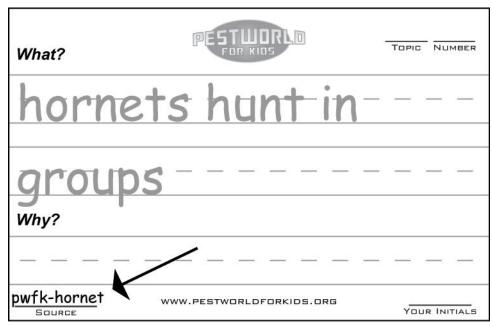
How many notes should you take? Depending on your subject and the sources you're using, you should try to have this many:

- Grades 1 2: 5 to 10 notes
- Grades 3 5: 15 to 30 notes
- Grades 5 8: 30+ notes

Remember Sources

A good researcher keeps track of her or his sources and gives credit where it's due. Make sure you right down a few words that identify where you got the idea or information. Put this in the lower left corner of your note card.

For example, if you got the information from the hornet entry on PestWorldforKids.org, you might write PWFK – hornet.



You'll use this information in your bibliography at the end of your paper.





REPORT WRITING PROJECT

Step 4: Sort Your Notes

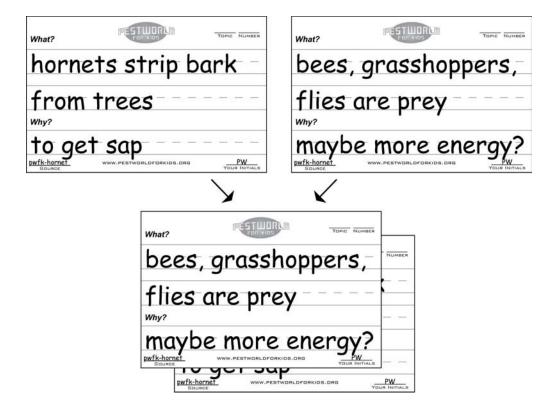
You've got all these notes but what do you do with them? You might not realize it now, but a major portion of your project is already done.

Before you can start writing, you should review your information.

- 1) Start by stacking all your notes in a pile.
- 2) Go through the notes in the pile, one by one. Sort notes with related information into their own stacks.

For example, look at these notes. The first note is about hornets stripping bark to get sap. The second has information about how hornets will prey on bees and other insects. Do these notes belong in the same stack? You would think so because both are about the food a hornet finds – its **diet**.







REPORT WRITING PROJECT

Look at these notes. The first note is about living in hollow trees but the next is about hunting in groups. Where should these notes go?

What?	FESTWORLD	TOPIC NUMBER
nest	s made in l	nollow
tree	S	
Why?		
pwfk-hornet	www.PESTWORLDFORKIDS.ORG	

What?	PESTWORLD FOR KIDS	TOPIC NUMBER
horne	ts hunt	in
group	S	
pwfk-hornet	WWW.PESTWORLDFORKIDS.C	

Since the first note isn't about **diet** but where they live, you'd start a new pile – **habitat**. The next note about hunting could go in its own group or the **diet** pile since it's about how hornets get their food.

	What?
	What he are at a largest in
	be hornets hunt in
nests made in hollow	fl groups
trees	Why?
Why?	mp <u>wfk-hornet</u> www.pestwarLoparkios.arg <u>PW</u> Source Your Initials
pwfk-hornet www.pestworldronkids.org PW Source Your Initials	PWfk-hornet www.pestworld/drkids.org PW

- 3) Try to sort your notes into least 4 -5 stacks. These will become your **topics** later when you're ready to write.
- 4) As you make stacks with notes that are related, be sure to reserve one stack for notes that you can't relate to others. You'll label this stack "Miscellaneous" later because it contains notes that have no connection with other notes.
- 5) Once you've gone through all of your notes, decide what topic a stack of notes describes (such as "habitat", "reproduction", "impact"). Write the topic's first few letter in the upper left of each note.

For example, the notes about tree sap and hunting insects belong in the "**diet**" category. So, each of these note cards should have "**diet**" or "**d**" written in the upper right corner.





REPORT WRITING PROJECT

Step 5: Arrange the Note Stacks Into Topics

You're almost ready to begin writing. In fact, you already have. Those stacks of notes you just made will become your paragraph **topics** in the next step.

Before you really begin to write, think about your subject one more time. Look over your stacks. Can you arrange them in an order that makes sense?

For example, these stacks of notes about the hornet were arranged by **general info, diet**, **habitat**, **impact**, **prevention**, and **miscellaneous**. It made sense to put "general info" first since that information is like an introduction to the subject, hornets. **Diet** might come next since what an organism eats can determine where it lives (**habitat**). The topic **Miscellaneous** comes last because there is no real connection between **miscellaneous** and other topics.

What? Seninfo Euro. hornets form colonies why? social insect DURGE Wow.PESTWORLDFORKIDB.ORD With Hornat Source	What? What? bees, grasshoppers, flies are prey Why? maybe more energy? <u>pwfk-hornet</u> www.PESTWORLDFORKIDS.ORD
What? What? What? What? What? NUMBER NUMBER Why? Why? W Destroarde in hollow Press Why? W Destroarde on the source WWW.PESTWORLOFORKIDS.ORG PW Volum Instructs Destroarde on the source WWW.PESTWORLOFORKIDS.ORG PW Volum Instructs	What? TOPIC NUMBER h. damage trees and h. damage trees and shrubs Why? Stripping bark off Bauer WWW.PESTWORLDFORKIDS.ORG WWW.PESTWORLDFORKIDS.ORG WWW.PESTWORLDFORKIDS.ORG WWW.PESTWORLDFORKIDS.ORG WWW.PESTWORLDFORKIDS.ORG WWW.PESTWORLDFORKIDS.ORG WWW.PESTWORLDFORKIDS.ORG WWW.PESTWORLDFORKIDS.ORG WWW.PESTWORLDFORKIDS.ORG
What? Prevent Toric NUMBER Sweet drinks attract hornets Why? don't leave outside DWTK-homet Source WWW.PESTVORLOFORKIDS.DRD WWW.PESTVORLOFORKIDS.DRD WWW.PESTVORLOFORKIDS.DRD WWW.PESTVORLOFORKIDS.DRD WWW.PESTVORLOFORKIDS.DRD WWW.PESTVORLOFORKIDS.DRD WWW.PESTVORLOFORKIDS.DRD	What? European hornets fly at night Why? only stinging insect pwfk-hornet www.PERTWORLOFLORMEROR.ORD





REPORT WRITING PROJECT

The order you choose and how you label topics is really up to you. Just make sure you can explain why you've chosen to arrange the notes the way you have.

IMPORTANT: Write the **topic** or an abbreviation of the topic in the upper right corner. Then, use a paperclip to keep all the notes in each pile together so you don't loose them!

What?	PESTUORLD connectors	gen info TOPIC NUMBER
Euro.	hornets fo	orm –
colon	ies	
Why?	l insect	
Why?		PW YOUR INITIALS



REPORT WRITING PROJECT

Step 6: Number the Notes

Just as you arranged the stacks of notes in some kind of order, the next step is to arrange the notes in each stack in some kind of order. This can be a little trickier because it's not always clear. The nice thing about using note cards is that it's easy to re-order them in case you've discovered a better way later.

What?	PESTWORND	gen info
Euro.	hornets f	orm -
colon	ies	
socia	l insect	
wfk-hornet	www.pestworldforkids.org	PW YOUR INITIALS PW

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Once you've ordered the notes, be sure to put a number in the upper right corner. That'll help you keep track of which note you used.



REPORT WRITING PROJECT

Step 7: Topic Sentences

Now, you're ready to start writing!

- 1) Get one more note card for each stack you've made.
- 2) Think of a topic sentence that introduces the information in a stack.

For example, the notes in the "diet" stack mention many different sources for food. So, a topic sentence could simply be:

"The European Hornet eats both animals and plants".

Sometimes it's a good idea to avoid using the actual word for the topic in the topic sentence. Notice that the sentence doesn't actually say "diet" but uses words to get that idea across.

Step 8: Introductory Paragraph

Now, you're ready to write the paragraph that will introduce your subject and the information you've collected. In some ways, this is the most difficult step.

1) It's always best to start with a hook – a sentence that will grab your reader's attention and introduce the subject. For example,

Of all the stinging insects, the hornet is perhaps the most feared.

Notice that the sentence doesn't start out with "Hornets are ...". Instead, there are some words that hopefully will grab the reader's attention.

2) Next, it's a good idea to let your readers know what topics are covered in your project. One way to do this is to write a sentence for each topic. You can even use a slightly different version of your topic sentences. For example,

Of all the stinging insects, the European Hornet is perhaps the most feared. A hornet's sting may give people a reason to fear it but there are many facts that make the hornet an interesting creature. A flexible eater, it has adapted to feast on a wide variety of plants and animals.



REPORT WRITING PROJECT

Step 9: Putting It All Together: Notes to Sentences, Sentences to Paragraphs

You're just about done with your draft. The last step is to take all those notes and write them as sentences.

- 1) To begin to write, use each stack's topic sentence as each paragraph's opening sentence.
- 2) Next take the first note in **diet** stack and use it to write a sentence:



Hornets eat many large insects like grasshoppers and bees.

Remember those "why" questions you answered on so many notes? Now is the time to use them. For example,

they eat fruit and sap because they are attracted to sugary foods \rightarrow Hornets are also attracted to sugary plant foods like fruit and sap.

3) Next, write a concluding statement or paragraph that sums up your subject. Because you're researching pests, consider making a pitch for how to avoid attracting pests in the first place. For example,

European Hornets can be fierce hunters and have painful stings. But if we think about it, it's not too hard to know how to avoid attracting them. We know they like sugary foods like honeydew and fruit. Therefore, people should not to leave out cans of soda or other sugary drinks that could attract them.

- 4) Now, put your draft away for a day or so. Don't even look at it. Why? Because you might figure out a better way to write something after you take a rest. This might even be the most important task you do during the entire process.
- 5) Time to get back to it. Take out your draft and read through it. Does everything still make sense to you? Are there any changes you could make to strengthen you paper?
- 6) After you make any changes, give it a friend to read it over. Find out if there are any changes she or he would suggest you make. Maybe there's a sentence that doesn't make sense or a word that that needs some explanation.
- 7) Revise your draft, making any changes you think are necessary.
- 8) Ask two to three other friends to read your paper and then to take a little quiz, to be sure your audience will learn the important information:
 - a. What does this pest eat?
 - b. Describe the pest's habitat. Where does it like to live?
 - c. How should you prevent the pest from invading your space?
- 9) Were your friends able to give you the correct answers? Make any final changes so that your paper's information is crystal-clear.



REPORT WRITING PROJECT

Step 10: Preparing to Share Your Work

The final step is to share your work with the world. How can you use the information you've researched and written to help people appreciation and prevent pests from impacting their lives?

Put Your Paper in Final Form

A research paper is best presented in a specific format. Your paper should have:

- a title page (an almost blank page with your paper's title and the author (that's you)
- an introduction (step 8)
- paragraphs with topic sentences (step 9)
- conclusion (step 9)
- bibliography

Making a Bibliography:

Don't forget to give credit where credit is due. Get one last page of paper and write down each source you've used. You should then list all your sources, as well as where and when you got them. That's called a **citation**.

For example, you might have used the "wasp" entry from PestWorldforKids.org:

"European Hornet". PestWorldForKids.org. October 15, 2008 < www.pestworldforkids.org>.

- 1. Put quotation marks around the entry's title: "European Hornet".
- 2. Then put a period.
- 3. List the website's URL address.
- 4. Finally, write down you accessed the site.

Share:

You're done with your paper! All that good and hard work shouldn't just sit on a shelf or in your backpack! Figure out how might you share the information with the world.

Consider your potential audience and your purpose. Sometimes a book is the best, other times a simple poster will work. It all depends on these factors:

- Do you want to provide in-depth information or just one or two important ideas?
- How old is your audience?
- How much time do they have to learn your information?
- Where is your audience located? What is the best way to reach them?

Extension: Pest PSA

The "Lessons" section [<u>www.pestworldforkids.org/lessons.htmls</u>] of Pestworldforkids.org features a four-to-five day project on creating Public Service Announcements: <u>www.pestworldforkids.org/lesson-psa.pdf</u>