

NELSONNETBOOK

Using the Offline Reader - PC

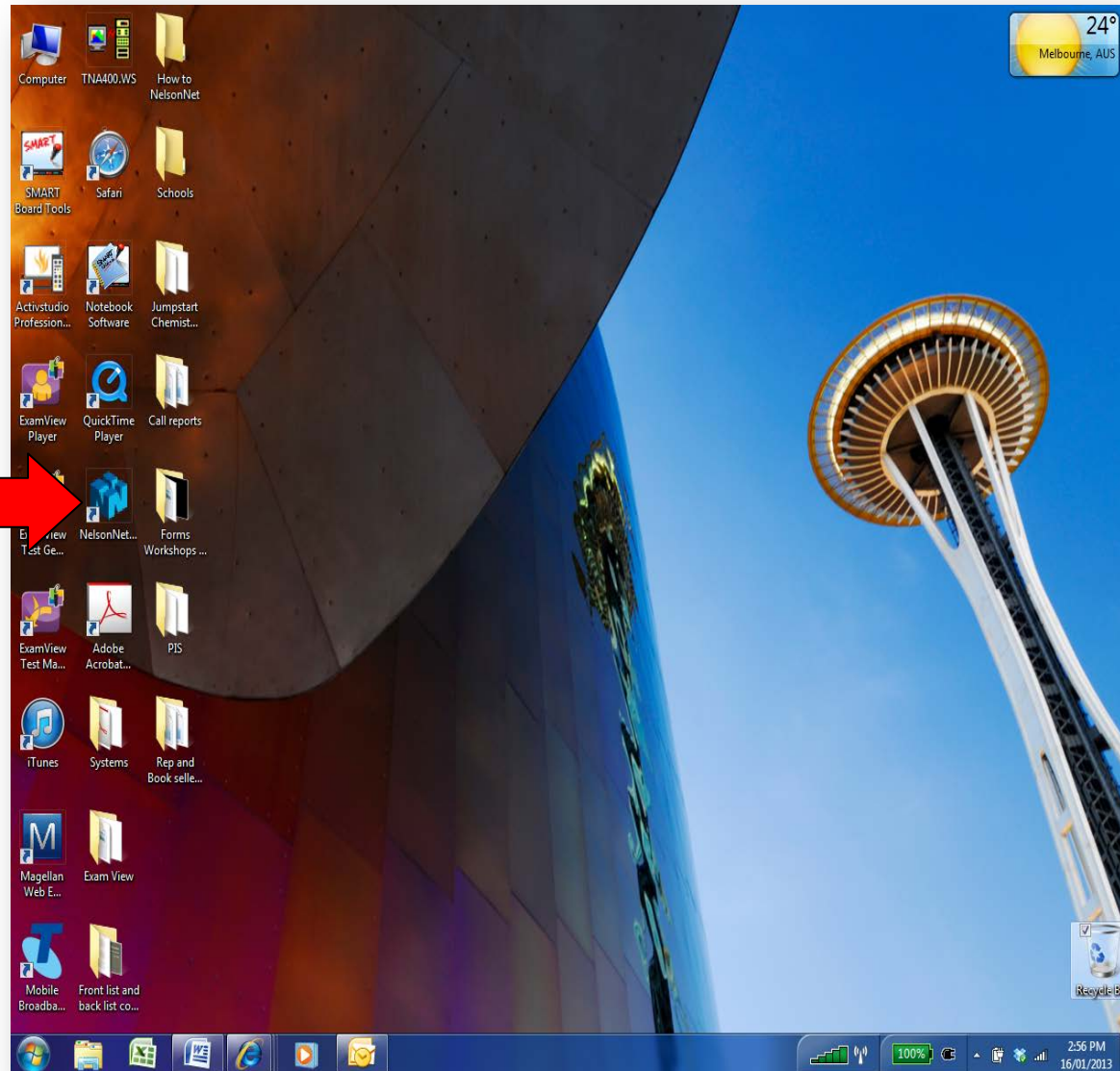


Using the NelsonNet Offline eBook

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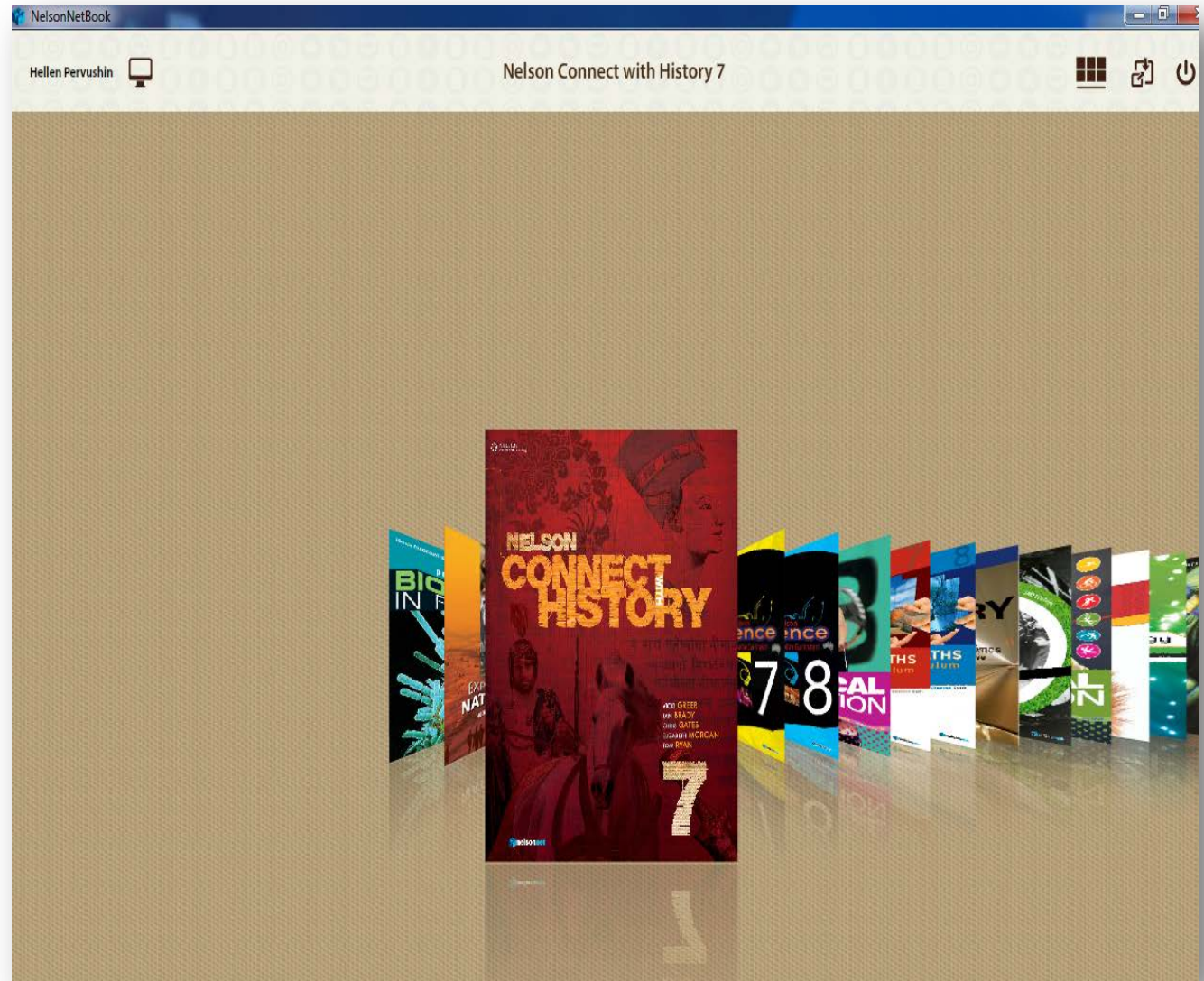
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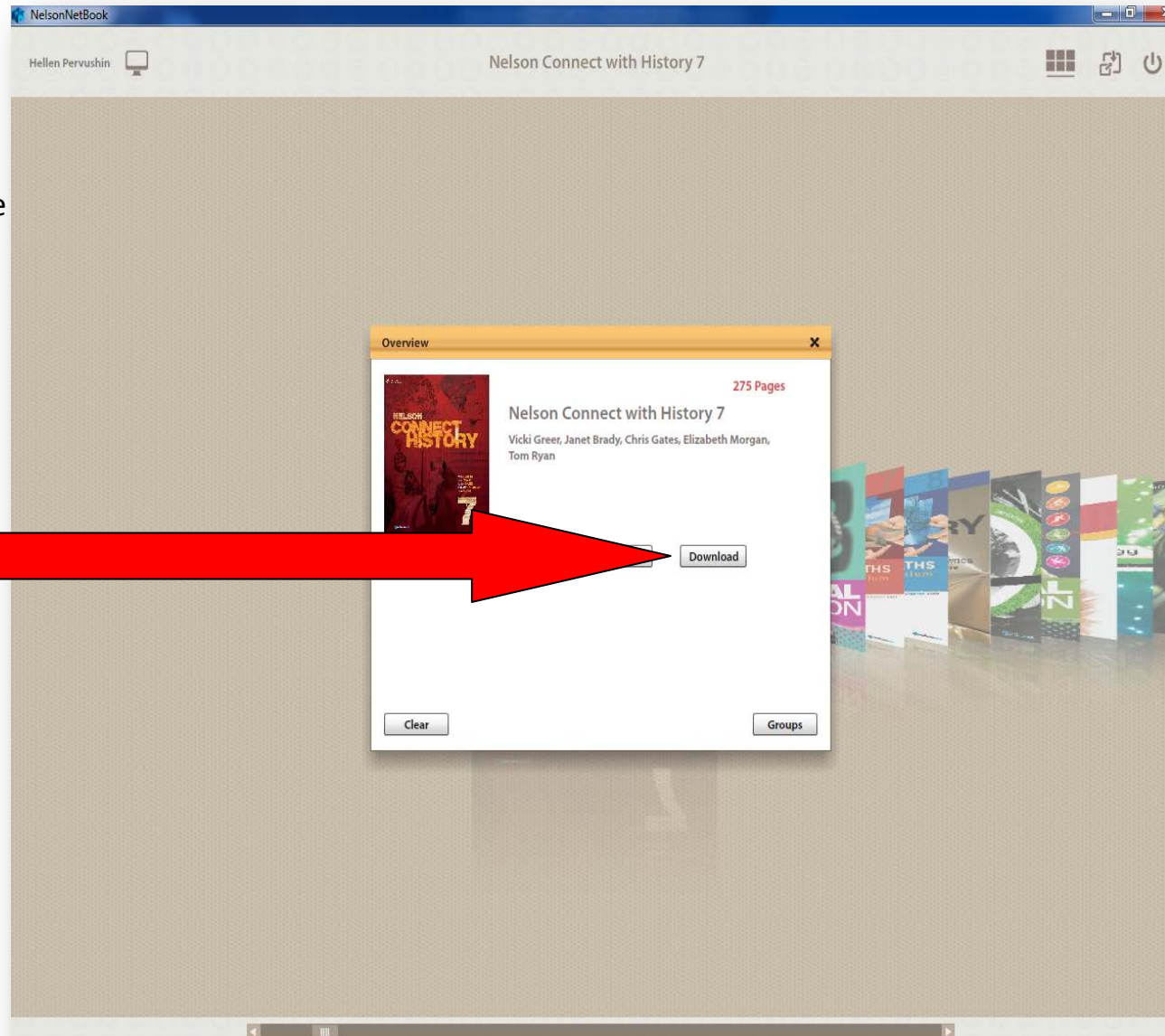
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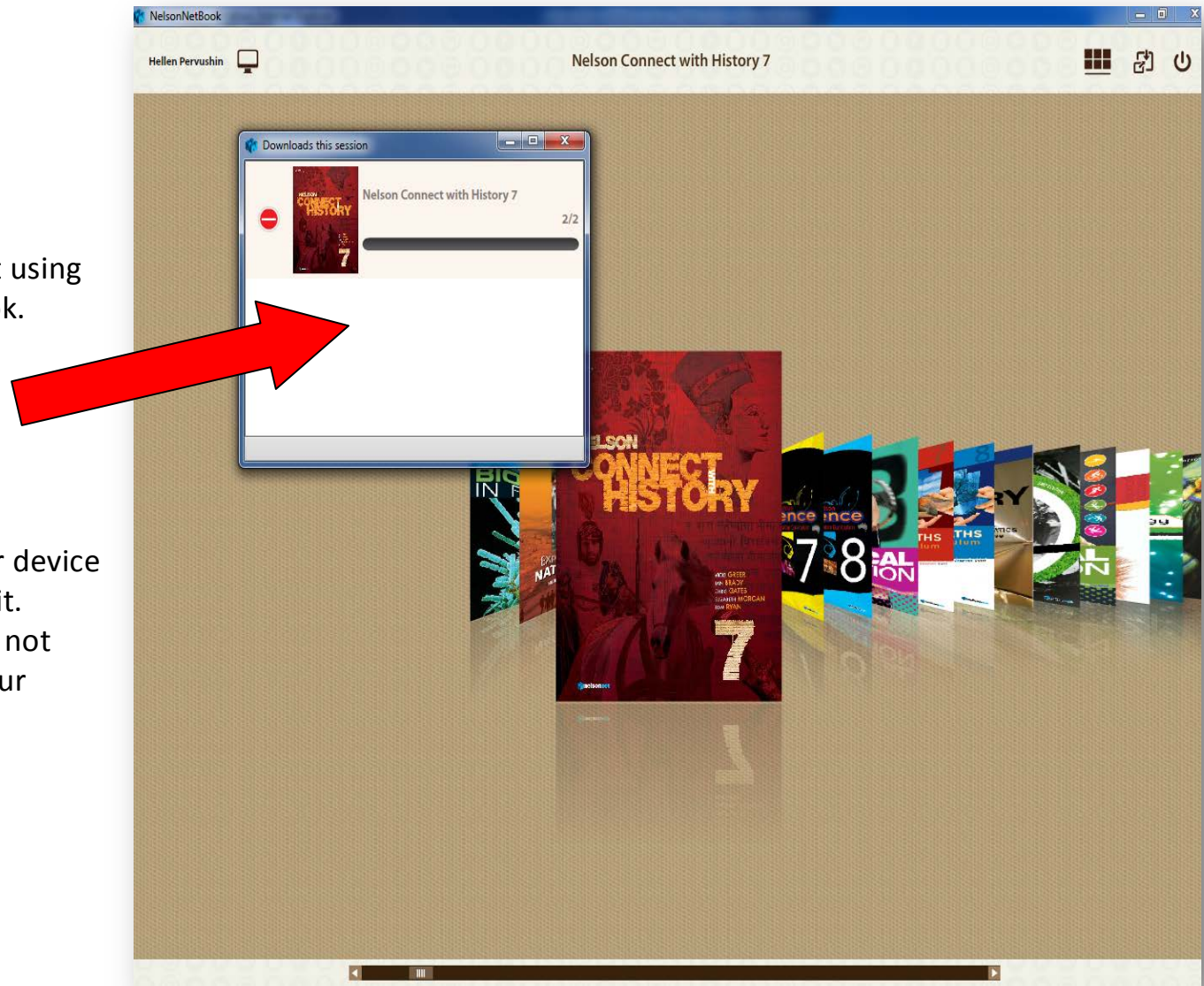
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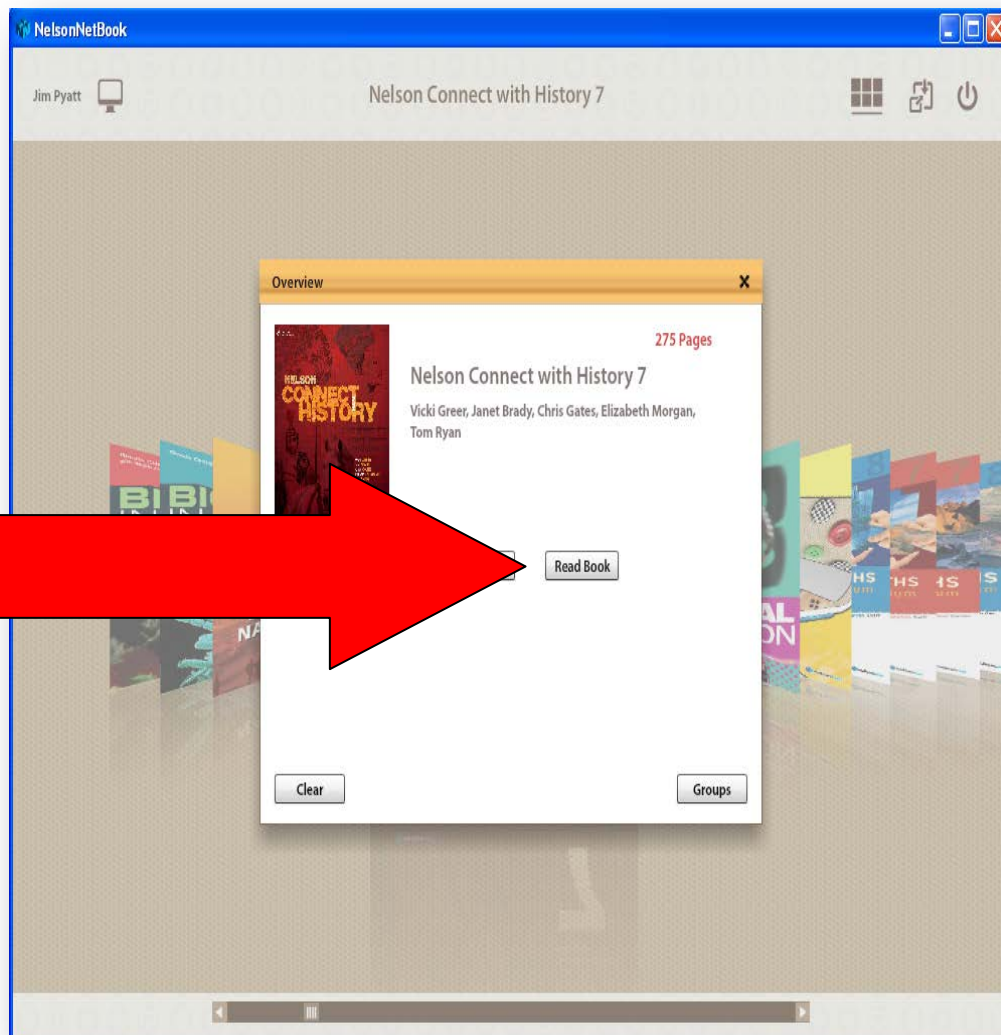
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Using the NelsonNet Offline eBook

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Unit 2 Inquiring with

What do you already know about scientific inquiry?

You probably encounter plastic wrap every day. It might be around your lunch in your school bag, or around the sandwich that you buy at the school canteen. It could be covering yesterday's leftovers in the fridge at home. There are many annoying things about plastic wrap. Sometimes it doesn't tear straight, sometimes it sticks to itself and sometimes it doesn't stick properly. But the most annoying thing of all would be if the plastic wrap was not strong enough. Imagine if the plastic wrap around your sandwich broke, and the filling from your egg sandwich ended up all over the contents of your schoolbag. Plastic wrap needs to be strong.

In the following activity you will have the opportunity to show what you already know about scientific inquiry.

Calibrating assessment task

Do TV ads tell the whole truth?

Television advertisements specialise in telling you which is the best dishwashing detergent, paper towel or insect killer. How reliable are advertisers' claims, and are they backed up by scientific testing?

Your task

- 1 Which sticky tape is the stickiest?
- 2 Which laundry detergent cleans clothes the best?
- 3 Which elastic band is the most stretchy?
- 4 Which dishwashing liquid cleans dishes the best?

7 What sorts of results will you collect? How will you collect them?

8 How will you display your results?

9 Perform your method.

10 How do you discover?

11 How could your method have been improved?

What do you need

- three different brands of plastic wrap
- other equipment as requested

What to do

- 1 Observe and feel each brand of plastic wrap. Predict which brand you think will be the strongest. Record your prediction.
- 2 Work out how you are going to test the strength of each plastic wrap. Ask your teacher for any equipment that you may need.
- 3 Write down your method of testing and list all the equipment that you use.
- 4 Perform your method.

What did you discover?

- 1 Write down your results.
- 2 From your results, which brand of plastic wrap did you find to be the strongest?
- 3 Do your results match your prediction?

What do you think?

- 4 Discuss with the rest of the class the method that your group used. How did other groups differ in their method to test their plastic wrap?
- 5 List anything else, other than the strength of the wrap, that could have affected your results.

WORKSPACE

Which brand of plastic wrap is the strongest?
SC207916072008

Work in a group of two or three students. Work out a **method** you could use to find out which brand of plastic wrap is the strongest.

Figure 2.1

Plastic wrap needs to be strong.

Figure 2.2

Which washes whitest?

Teachers please note: internet access is required for the Group notes and annotations that you would like to share with your students

Once you have made the annotations on your offline version of the eBook, make sure you are connected to the internet when saving these changes.

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Unit 2 Inquiring with science

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Activity 2.1 Which brand of plastic wrap is the strongest?

You need

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What do you think?

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- 5 List anything else, other than the strength of the wrap, that could have affected your results.

Who really invented cling wrap?

Figure 2.1 Plastic wrap needs to be strong.

WORKSPACE

Which brand of plastic wrap is the strongest?
SC2079W1607208

Work in a group of two or three students. Work out a **method** you could use to find out which brand of plastic wrap is the strongest.

Conducting assessment task: Do TV ads tell the whole truth?

Television advertisements specialise in telling you which is the best dishwashing detergent, paper towel or insect killer. How reliable are advertisers' claims, and are they backed up by scientific testing?

Your task

Select a common household product. Design a fair test to find out if that product is the best of what it does. For example:

- Which sticky tape is the stickiest?
- Which laundry detergent cleans clothes the best?
- Which elastic band is the most stretchy?
- Which dishwashing liquid cleans dishes the best?

What to do

- 1 Decide on the question you want answered.
- 2 Predict what the answer might be.
- 3 Work out a method to test your prediction. Make sure that it will test what you want it to test.
- 4 List your variables. Identify your independent and dependent variables. What variables will you need to control?
- 5 Plan what equipment you need.
- 6 Consider any safety risks and take action to reduce them.

7 What sorts of results will you collect? How will you collect them?

8 How will you display your results?

9 Perform your method.

What did you discover?

- 1 Did your results agree with your prediction?

What do you think?

- 2 How could your method have been improved?

Presentation

- 3 Write up your experiment using the report-writing format on page 39.

WEB 2.0

Take digital photos to illustrate your method and results, and include these in your report. Upload your final report to the class wiki.

ACTIVITY SHEET

Rubric: Do TV ads tell the whole truth?
SC2079W1607208

Figure 2.2 Which washes whitest?

glossary term

method
the set of steps that you take to conduct a scientific investigation

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Unit 2 Inquiring with science

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In the following activity you will have the opportunity to show what you already know about scientific inquiry.

Activity 2.1 Which brand of plastic wrap is the strongest?

You need

- three different brands of plastic wrap
- other equipment as requested

What to do

- 1 Observe and feel each brand of plastic wrap. Predict which brand you think will be the strongest. Record your prediction.
- 2 Work out how you are going to test the strength of each plastic wrap. Ask your teacher for any equipment you need.
- 3 Write down your method and predict what you think will be the strongest.
- 4 Carry out your method and record your results.
- 5 From your results, which brand of plastic wrap did you find to be the strongest?
- 6 Do your results match your prediction?

What do you think?

- 1 Discuss with the rest of the class the method that your group used. How did other groups differ in their method to test their plastic wrap?
- 2 List anything else, other than the strength of the wrap, that could have affected your results.

Who really invented

Figure 2.1 Plastic wrap needs to be strong.

WORKSPACE

Which brand of plastic wrap is the strongest?
SC0794807208

Work in a group of two or three students. Work out a **method** you could use to find out which brand of plastic wrap is the strongest.

Calculating assessment task: Do TV ads tell the whole truth?

Television advertisements specialise in telling you which is the best dishwashing detergent, paper towel or insect killer. How reliable are advertisers' claims, and are they backed up by scientific testing?

Your task

Select a common household product. Design a fair test to find out if that product is the best of what it does. For example:

- Which sticky tape is the stickiest?
- Which laundry detergent cleans clothes the best?
- Which elastic band is the most stretchy?
- Which dishwashing liquid cleans dishes the best?

What to do

- 1 Decide on the question you want answered.
- 2 Predict what the answer might be.
- 3 Design a method to test your prediction. Make sure you can test what you want it to test.
- 4 Carry out your method. Identify your independent variables. What variables will you control?
- 5 Record your results. What equipment do you need.
- 6 Analyse your results. Identify any risks and take action to reduce them.

7 What sorts of results will you collect? How will you collect them?

8 How will you display your results?

9 Perform your method.

What did you discover?

- 1 Did your results agree with your prediction?

What do you think?

- 2 How could your method have been improved?

Presentation

- 3 Write up your experiment using the report-writing format on page 39.


WEB 2.0

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ACTIVITY SHEET

Rubric: Do TV ads tell the whole truth?
SC0794807208

Figure 2.2 Which washes whitest?



glossary term

method
the set of steps that you take to conduct a scientific investigation

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Your changes from your offline version are now being synchronized to the online version of your NelsonNet eBook

The screenshot displays the NelsonNetBook interface for a science activity. The page is titled "What do you already know about scientific inquiry?" and includes a "Culminating assessment task" titled "Do TV ads tell the whole truth?". A red arrow points to a yellow notification box in the center of the page that says "Syncing..." and "Syncing in progress...". The interface also features a "Workspace" section with a question "Which brand of plastic wrap is the strongest?" and a "Glossary term" section for "method". The bottom of the screen shows the NelsonNetBook logo and navigation icons.

Nelson Science 7 Unit 2 Inquiring with science

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- 3 Do your results match your prediction?

What do you think?

- 4 Discuss with the rest of the class the method that your group used. How did other groups differ in their method to test their plastic wrap?
- 5 List anything else, other than the strength of the wrap, that could have affected your results.

WORKSPACE

Which brand of plastic wrap is the strongest?
SC2019A607268

Work in a group of two or three students. Work out a method you could use to find out which brand of plastic wrap is the strongest.

What fabrics should you never wash in hot water?

glossary term

method
the set of steps that you take to conduct a scientific investigation

Do TV ads tell the whole truth?

Television advertisements specialise in telling you which is the best dishwashing detergent, paper towel or insect killer. How reliable are advertisers' claims, and are they backed up by scientific testing?

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Select a common household product. Design a fair test to find out if that product is the best of what it does. For example:

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ACTIVITY SHEET

Rubric: Do TV ads tell the whole truth?
SC2019A607268

Figure 2.1 Plastic wrap needs to be strong.

Figure 2.2 Which washes whitest?

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Nelson Science 7


Unit 2 Inquiring with science

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Activity 2.1 Which brand of plastic wrap is the strongest?



Who really invented cling wrap?

Figure 2.1 Plastic wrap needs to be strong.

WORKSPACE
Which brand of plastic wrap is the strongest?
SC2075NR07208

Work in a group of two or three students. Work out a method you could use to find out which brand of plastic wrap is the strongest.

You need

- three different brands of plastic wrap
- other equipment as requested

What to do

- 1 Observe and feel each brand of plastic wrap. Predict which brand you think will be the strongest. Record your prediction.
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Presentation

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ACTIVITY SHEET
Rubric: Do TV ads tell the whole truth?
SC2075AS07208




Figure 2.2 Which washes whitest?

What fabrics should you never wash in hot water?

glossary term
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