

# Teacher Resource Book



## Frankie Dupont and the Science Fair Sabotage

By Julie Anne Grasso

### Synopsis

Frankie Dupont is less than impressed when he has to attend the sustainable science fair with Kat and Amy. Upon his arrival, he learns that Amy's brothers have had their robotics chip stolen.

Keen to recover the chip, Frankie questions the kids in the competition, but everyone seems to have a motive.

When baffling clues start rolling in via "Snap-Goss" instant messages, Frankie realises it will take all of his detective muscles to solve this case.

### **Author Profile: Julie Anne Grasso**

Julie Anne Grasso is an independent publisher of middle grade science fiction and mystery for kids aged 8 – 12.

With a background in paediatric nursing, Julie Anne Grasso spent many years literally wrapping children in cotton wool. Every day she witnessed great courage and resilience from the tiny people she cared for, which inspired her to write stories about a little girl elf just like them. She lives in Melbourne Australia with her husband Danny and their little elf Giselle.

2013 Winner of the Gold Award in the Wishing Shelf Independent Book Awards for kids' books aged 9-12  
Escape from the Forbidden Planet

<http://www.julieannegrassobooks.com/>

### **Illustrator Profile: Alexander Avellino**

<http://www.alexanderavellino.com/>

### **Educational Consultant Profile: Jenny Graham**

Jenny is passionate about helping children learn to read and write. She is the founder of AbcJenny, a parenting website which gives information and activities to develop children's early reading and writing skills.

Jenny uses her nearly 20 years primary teaching experience to create educational activities for authors based on their book, linking the activities to the Australian Curriculum. She is also currently writing for Oz Phonics and an American based publisher, Flying Turtle Publishing.

It does not matter how busy Jenny is, she always finds time to spend with her husband and their two boys, Charlie and Tommy.

[www.abcJenny.com](http://www.abcJenny.com)

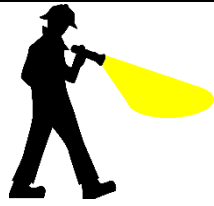
*Permission has been given to allow author Julie Anne Grasso to use this Teacher Resource Book in any capacity.*

## Activities linked to the Australian Curriculum (Years 3-6)

	Glossary	Snap Goss	Peripheral Vision	You be the judge.	Frankie Drama	Robot Future.	Out of order.	Popped Balloons.	Jigsaw
English	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mathematics			✓						
Science			✓			✓			
History (H and SS)						✓			
Geography (H and SS)									
Economics (H and SS)									
Civics and Citizenship (H and SS)				✓				✓	
Technologies - Digital Technology		✓							
Technologies – Design and Technology						✓		✓	
Arts – Visual Arts									✓
Arts – Music									
Arts – Dance									
Arts – Drama					✓				
Arts – Media Arts					✓				
Health and Physical Education									

H and SS = Humanities and Social Sciences.

Teacher Task Cards and Student Worksheets provided.



## Glossary

### Resources needed:

- ✓ Dictionaries or internet connection to use online dictionaries
- ✓ Worksheet titled Glossary
- ✓ Copy of Frankie Dupont and the Science Fair Sabotage book

### Activity:

Students are exposed to many new words in Frankie Dupont and the Science Fair Sabotage. Using the worksheet titled Glossary, students re-read the section of text surrounding each word (page numbers are included). They complete the worksheet by finding the definition in a dictionary or on the internet.



## Snap-Goss

### Resources needed:

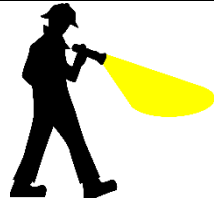
- ✓ Small individual whiteboards or chalkboards
- ✓ Whiteboard markers or chalk
- ✓ Duster

### Activity:

Snap-Goss provides an important clue to Frankie finding the thief. Snap-Goss was explained on page 6, 'Snap-Goss is when an image appears on your Smartphone and it only lasts a few seconds before it disappears.'

Play a game with your class using Snap-Goss. Write instructions on the whiteboard, leaving them up for only 5 seconds.

A variation of this game is for students to work in partners. Each player has a white board. See if pairs can have a conversation, only leaving their comments on their white board for 5 seconds.



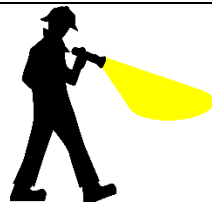
## Peripheral Vision

### Resources needed:

- ✓ Chalk
- ✓ Worksheet titled Peripheral Vision
- ✓ Coloured squares
- ✓ A concreted area
- ✓ Student prior knowledge of peripheral vision

### Activity:

Following the instructions on the worksheet titled, Peripheral Vision. Students predict how good their peripheral vision will be and then test their theory. Results are recorded on the worksheet titled, Peripheral Vision.



## You be the judge.

### Resources needed:

- ✓ List of suspects
- ✓ Worksheet titled, You be the judge.

### Activity:

Discuss with students the role of a judge. Give them the opportunity to choose who they would like to have won the Science Fair competition. They can write their answer with the reason why on the worksheet titled: You be the judge. Remind children there are no wrong answers it is their opinion that counts.



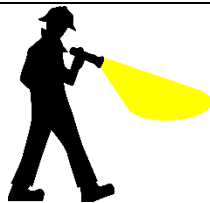
## Robots past, present and future.

### Resources needed:

- ✓ Worksheet titled Robots past, present and future
- ✓ Books or internet information on Robots in History

### Activity:

As a whole class or individually students research the history of robots. Draw a picture for each major robot event in history. In the last square students design a robot they think will be invented in the future.



## Frankie Drama

### Resources needed:

- ✓ Worksheet titled Frankie Drama
- ✓ Suggested props – toy phones, balloons, fedora

### Activity:

Using the worksheet titled Frankie Drama assign a character to individual students. Students read their section and add in any actions they feel necessary. Different groups may like to come up with different endings, creating their own next chapter of the story.



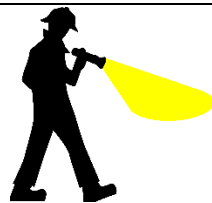
## Out of order

### Resources needed:

- ✓ Worksheet titled Out of order.
- ✓ Frankie Dupont and the Science Fair Sabotage

### Activity:

Using the worksheet titled, 'Out of Order' students write the correct order of illustrations either 1, 2 or 3 in the box provided. After each illustration, students write a brief description of what scene the image is from.



## Popped Balloons

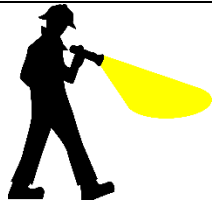
### Resources needed:

- ✓ Worksheet titled Popped Balloons
- ✓ Timer
- ✓ Objects: popped balloon, string, stick, piece of paper, key, paper clip, sticky tape

### Activity:

In the book, Heather uses popped balloons to create jewellery. On the sheet titled, 'popped balloons' think of imaginative ways to use the different objects listed. You may like to make this a timed exercise.

This activity can be turned into a game. All students start standing and when they cannot think of a different use for the item, they must sit. The winner is the last person standing.



# Jigsaw

## Resources needed:

- ✓ Jigsaw template
- ✓ Thick cardboard
- ✓ Glue, scissors

## Activity:

The illustrator, Alexander Avellino creates pictures which summarise important sections of the book, Frankie Dupont and the Science Fair Sabotage.

Discuss with students the detail in the illustrations and how each scene is an action scene. The characters are in the middle of doing something.

Ask students to think of an action scene in the book to draw. Draw the scene on the jigsaw template. Once the picture is drawn, glue jigsaws on to thick cardboard paper and cut into pieces.

Collect jigsaw pieces and hand to different students to solve. Can they also work out which scene the illustration from the jigsaw is from?





## Glossary

Find and re-read the below sections of text. Using a dictionary or the internet, write the definition of each word below.

**Synthetic (page 1)**

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**X chromosome (page 17)**

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**Intently (page 37)**

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**Peripheral (page 47)**

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**Illuminated (page 66)**

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**Hors d'oeuvre (page 77)**

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**Sustainable (page 107)**

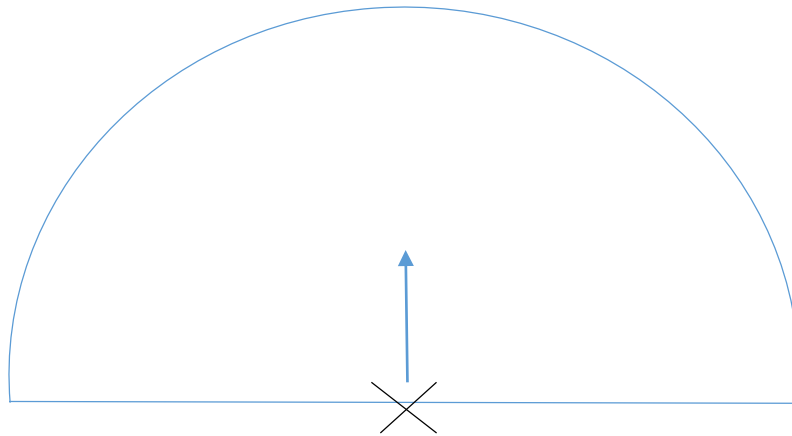
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## Peripheral Vision

	Prediction	Result
Partner 1		
Partner 2		



Step One: Write your initials on the semi-circle where you predict you will see the coloured paper using your peripheral vision.

Step Two: Stand on the X

Step Three: Your partner chooses a coloured paper without you seeing and moves around the semicircle.

Step Four – Keep looking straight ahead and yell the colour your partner is holding when you first notice it. Remember you must be looking straight ahead at all times.

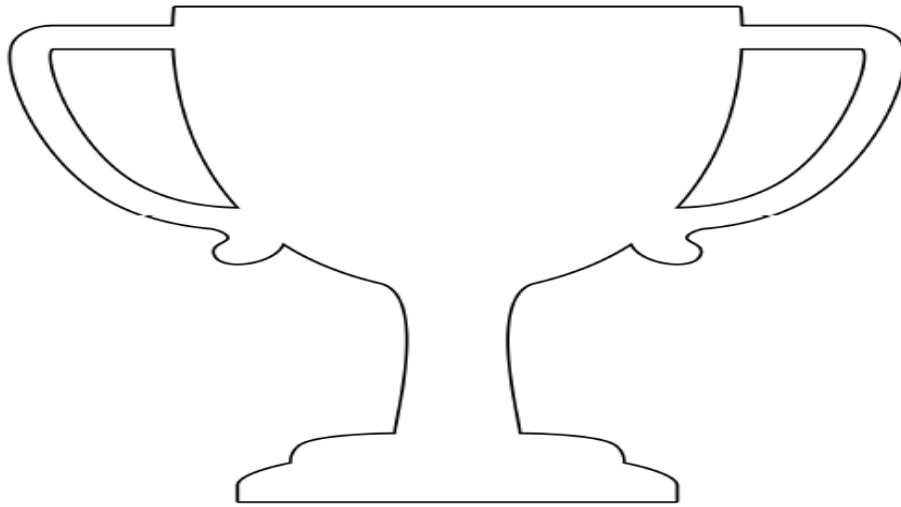
Step Five – Write your initials where you first noticed the colour paper using your peripheral vision.

Step Six – Compare your prediction and your test results.



## You be the judge

Write the name of the character you believed should win the Science Fair competition on the trophy. Give the reasons why you chose that character below.



I think \_\_\_\_\_ should win

the Science Fair competition because \_\_\_\_\_

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## Frankie Drama

Characters: Cluesome, Frankie, Amy, Mr Danbury, Harrison, Heather, Mr Chapman, Miss Chestnut, Mr Mulberry.

Cluesome: Correct me if I'm wrong, isn't the identity of the Snap-Goss sender deleted within a few seconds.

Cluesome (winking at Frankie) I have a nephew.

Frankie: Yes, for the person receiving the Snap-Goss however if Harrison and Heather redial their mobile phone numbers right now, in front of us we'll be able to determine which one of them has been sending messages.

Cluesome: That sounds solid. Mr Danbury, Mr Chapman. Will you agree to Master Dupont's suggestion?

Mr Danbury: (marching to his son Harrison) Son, you have a right to refuse, and we can settle this matter in the court if you wish to.

Harrison: I am aware of my rights, Father. I can assure you, I have absolutely no guilt in this matter so I'll submit to Frankie Dupont's silly exercise

Mr Chapman: I can assure you my daughter would never do such a thing. Isn't that right Heather?

Heather: (flashing a sweet smile) Of course not, Dad.

Cluesome: All yours, Frankie.

Frankie: Okay. Perhaps Miss Chestnut and Mr Mulberry do the redialling. Miss Chestnut can take Heather's phone and Mr Mulberry can take Harrison's.

(Heather hands her phone to Miss Chestnut and Harrison hands his phone to Mr Mulberry)

Frankie: Are we ready?

Amy: Ready.

Frankie On my mark.....three, two redial.

*Phone dialling noise heard.*

- **Continue the scene in your own words. Improvise, actions and spoken words.**



## Out of order.

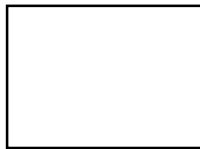
In the box, write the correct order of the images from the book.  
Write a brief description of each scene.



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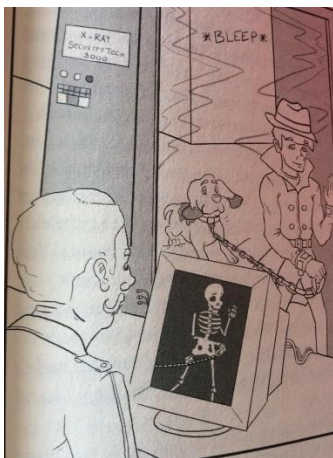
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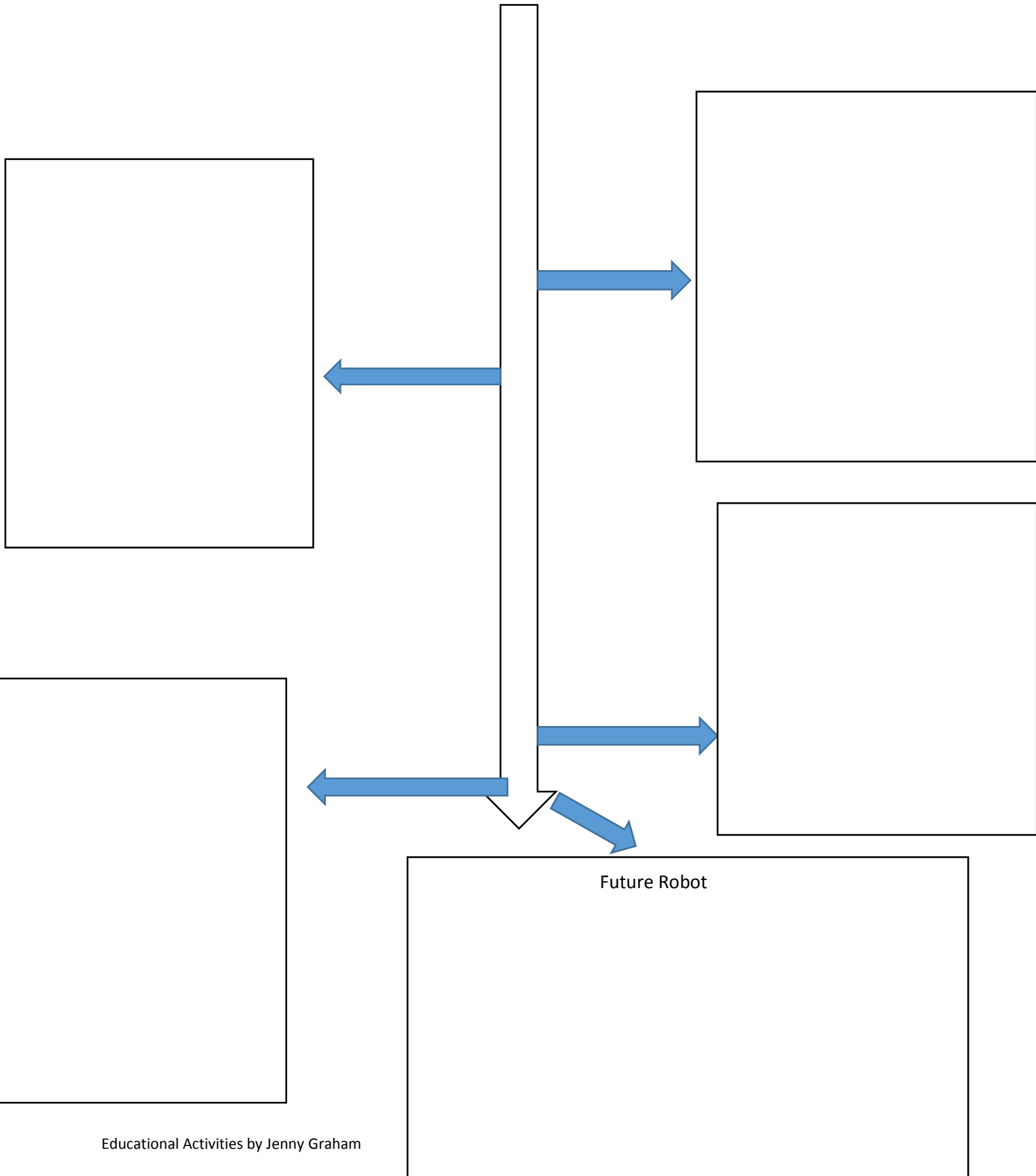
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## Robot past, present and future.

Draw a picture of robots in the past on the timeline below. In the last box design what you think a robot in the future will look like.






## Popped Balloon

Use your imagination and invent two uses for the following objects:

 Popped balloon \_\_\_\_\_

 Paper clip \_\_\_\_\_

 String \_\_\_\_\_

 Piece of paper \_\_\_\_\_

 Key \_\_\_\_\_

 Stick \_\_\_\_\_

 Sticky Tape \_\_\_\_\_

Illustrate one of your new inventions below

