

## The Young Scientists Series — Book 6: The Amazing Quantum

### List of Resources

1. Understanding What We Read
2. Responding to Text
3. Close Reading Skills
4. Book Reflection
5. Fun with Art
6. Answer Key

### Internet Resources

- Max Planck  
<https://www.youtube.com/watch?v=fC7eKcpT0XE>
- Albert Einstein  
<https://www.youtube.com/watch?v=mQiNDOv-vnY>
- John Von Neumann  
<https://www.youtube.com/watch?v=XZ9tt72feL8>

### 1. Reading for Understanding (How a Compass Inspired a Genius)

This activity is set based on the latest comprehension format. It serves as a practice for their comprehension open-ended skills.

### 2. Responding to Text

Refer to the text “The Boy Secretly Reading a Book Behind His School Desk”. Students are to share why Wolfgang Pauli was extraordinary.

### 3. Close Reading Skills

In this exercise, students will practice their close reading skills. You may want to encourage them to look for contextual clues in the text.

### 4. Book Reflection

In this exercise, students are to write a reflection the story they like best in this book

### 5. Fun with Art

From the story “The Boy Who Had a Dispute with His Father”, students will draw and design a picture using mathematical symbols.

In this activity read the story “How a Compass Inspired a Genius” and answer the following questions.

1. According to the writer, why are compasses interesting? [2m]

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2. Based on the story, state whether each statement in the table below is **true** or **false**, then, give a reason why you think so. [2m]

Sentence	True/False	Reason
i) Einstein found that the needle of the compass pointed at different places when he turned in circles.		
ii) The compass works because of magnets.		

3. Albert Einstein moved to Italy because \_\_\_\_\_.

- (a) he found opportunities there
- (b) his father needed to work there
- (c) his parents wanted to send him to school there
- (d) he needed to learn more about magnets there ( )

4. Which word in the story (page 9) has the same meaning as “tiny piece”?

5. What did Einstein discover about an empty space?

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Fill in the blanks with a suitable word.

If your teacher tells you that there was no school the next day, I am sure you will be celebrating. This (1) \_\_\_\_\_ to a boy called Lee Tsung Dao (2) \_\_\_\_\_ lived in China many years ago. However, (3) \_\_\_\_\_ you and I, he did not celebrate. He was rather sad (4) \_\_\_\_\_ as he loved going to school. Because of World War Two, his country was invaded and this led to the closure of his school. Nevertheless, (5) \_\_\_\_\_ with problems about his schools shutting down, Tsung Dao pressed on and became a renowned scientist. He was so good at his work that he won a Nobel Prize when he was 30 years old.



# Fun with Art!

Read the story “The Boy Who Had a Dispute with His Father”. Just like how Jancsi’s proves to his father that he could not earn money doing mathematics, show us how by using mathematics symbols, you can create a nice and creative piece of art. Have Fun!