

# AL-BAHER

## Final Revision

### Connect Plus (3)

Second Term

## Nesma's Invention



CONNECT READING ADVENTURES

# Nesma's Invention



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The  
Story

# Nesma's invention

## The Characters



Nesma



Dad



Mom



Grandma



Laila



# The beginning



## Vocabulary:



Listen, point and say.



newsletter

نشرة الأخبار



invention

اختراع



inventor

مخترع



take part

يشترك



science equipment

معدات علمية



brilliant

رائع





## The Story



Nesma was reading the school **newsletter** when she saw an advertisement. There was a competition for the best **invention**.

"Look, Laila," said Nesma. "This looks fun. I want to be an **inventor**!"

عندما كانت نسمة تقرأ نشرة الأخبار المدرسية رأت إعلاناً. كانت هناك مسابقة لأفضل اختراع. قالت نسمة "انظري يا ليلي ، هذا يبدو ممتعاً ، أنا أريد أن أكون مخترعة!"



"You should **take part**," said Laila. "You'd be really good." "Look! If we win a medal, we'll get some **science equipment** for our school. That's a **brilliant prize**!" said Nesma.

قالت ليلي "ينبغي أن تشركي وستكونين رائعة حقاً." قالت نسمة "انظري! إذا فزنا بميدالية ، سوف نحصل على بعض الأدوات العلمية لمدرستنا ، وهذه جائزة رائعة"

## Nesma's Invention



Nesma loved inventing things. She thought about the competition as she walked home. What could she make? She could invent a toy, a vehicle, or something to communicate with people. She didn't know what to make, but she knew she wanted to take part.

كانت نسمة تحب اختراع الأشياء وظلت تفكر في المسابقة وهي في طريقها إلى البيت. ماذا يمكنها أن تبتكر؟ يمكنها أن تبتكر لعبة، أو مركبة، أو شيئاً للتواصل مع الناس. لم تكن تعرف ماذا تبتكر لكنها كانت تعلم أنها ترغب في المشاركة في المسابقة.



At home, Nesma sat down. She looked at books and websites for ideas. There were so many amazing inventions! How could she do something new? She took out her pens and paper, and started to draw. It was difficult.

وفي البيت جلست نسمة وطالعت الكتب والمواقع الإلكترونية لتجد بعض الأفكار. كان هناك العديد من الاختراعات المذهلة! لكن كيف يمكنها أن تبتكر شيئاً جديداً؟ أخرجت أقلامها وأوراقها وبدأت ترسم. كان الأمر صعباً.



# Activities

## 1 Look and number.

- 1 I want to be an inventor.
- 2 Nesma was reading the school newsletter.
- 3 That's a brilliant prize.
- 4 She looked at books and websites.



## 2 Read and complete.

- ① Nesma was reading the school .....
- ② There was a competition for the best .....
- ③ Nesma wants to be an .....
- ④ Laila told Nesma to ..... in the competition.
- ⑤ If they win a medal, they'll get some ..... equipment for their school.
- ⑥ Nesma thought about the ..... as she walked home.
- ⑦ Nesma looked at ..... and websites for ideas.
- ⑧ Nesma wanted to make something .....

## 3 Answer the following questions.

- ① What was Nesma reading?  
.....
- ② What was there in the school newsletter?  
.....
- ③ What does Nesma want to be?  
.....
- ④ What will happen if they win a medal?  
.....
- ⑤ Why did Nesma look at books and websites?  
.....

# The middle



## Vocabulary:

Listen, point and say.



old box

صندوق قديم



diary

مذكرات



drawings

رسومات



compass

بوصلة



navigate

يحدد المسار



wind wheel

طاحونة الهواء



electricity

كهرباء



track

مسار أو طريق



upside down

رأساً على عقب





## The Story



Nesma worked for a long time, but she couldn't get her ideas right. Her dad came home from work. "That looks interesting, Nesma," he said. "What is it?" "Oh, it's a competition at school. I don't think I'll take part. I can't think of anything to make." Dad sat down. "Show me your ideas," he said.

عملت نسمة لفترة طويلة لكنها لم تصل إلى أفكار جيدة. وعاد والدها من العمل. قال والدها "هذا يبدو شيقاً يا نسمة ، ما هذا؟" قالت نسمة "أوه ، إنها مسابقة في المدرسة ولا أعتقد أني سأشارك فيها ، فلا يمكنني أن أفكر في أي شيء اخترعه." جلس الوالد وقال "أريني أفكارك."



Nesma showed him the papers and drawings, but she was sad. She didn't think her ideas were very good. For a long time, her dad didn't say anything. Then he smiled at her. "You know, Nesma, I know someone who used to make drawings and inventions like this."

He stood up and went out of the room.

عرضت نسمة الأوراق والرسومات على والدها لكنها كانت حزينة فهي لا تعتقد أن أفكارها جيدة. لم يقل والدها أي شيء لفترة طويلة ثم ابتسم لها. وقال "أتعرفين يا نسمة ، أعرف شخصاً اعتاد على القيام بعمل رسومات واختراعات مثل هذه." ثم قام وخرج من الغرفة.



## Nesma's Invention



When he came back, he was carrying an old box. "This box has lots of things that used to belong to my mom," he said. "This was Grandma's?" asked Nesma. She looked at the box. There were letters and a diary, drawings and photos. Grandma used to be an inventor, too!

وعندما عاد والدها كان يحمل صندوقاً قديماً. قال والدها «هذا الصندوق به الكثير من الأشياء التي كانت تخص أمي» سألتها نسمة: «أكان يخص جدتي؟» ثم نظرت للصندوق ، وكان به خطابات ومفكرة ، ورسومات وصور. لقد كانت جدتها مخترعة أيضاً.



There were plans for a vehicle that used a compass to **navigate**. There was a drawing of a wheel that turned in the wind and made electricity. Nesma found a drawing of a small toy car. It was on a track, but it was traveling upside down. Nesma was interested.

كان هناك خطط لصناعة مركبة تستخدم بوصلة لتحديد الاتجاه. وكان هناك رسم لعجلة تدور بالرياح وتقوم بتوليد الكهرباء. وجدت نسمة رسماً لسيارة لعبة صغيرة. وكانت على مسار لكنها كانت تسير وهي منقلبة. كانت نسمة مهتمة بذلك.



# Activities

## 1 Look and number.

1 Nesma's Dad was carrying an old box.

2 There was a drawing for a wheel.

3 Nesma was sad.

4 There was a drawing of a small toy car.



## 2 Read and complete.

- ① Nesma ..... for a long time.
- ② Nesma's ..... came home from work.
- ③ Nesma's showed her Dad the papers and .....
- ④ Nesma was .....
- ⑤ Dad was carrying an .....
- ⑥ The old box used to belong to .....
- ⑦ There were ..... and a diary, drawings and photos.
- ⑧ Nesma's grandma used to be an .....
- ⑨ There were plans for a vehicle that used a compass to .....
- ⑩ Nesma found a drawing of a small .....
- ⑪ The small toy car was traveling .....

**3** Answer the following questions.

① Why was Nesma sad?

.....

② What did Nesma show her Dad?

.....

③ Who used to make drawings and inventions like Nesma?

.....

④ What was Dad carrying?

.....

⑤ What was in the old box?

.....

⑥ Who used to be an inventor?

.....

⑦ Why was Nesma interested in the drawing of the small toy car?

.....

⑧ How was the toy car traveling on the track?

.....





## The Story



### Vocabulary:



Listen, point and say.



note

ملاحظة



earthquake

زلزال



rescue workers

عمال إنقاذ



dangerous

خطير



wires

أسلاك



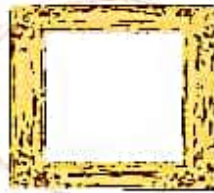
magnet

مغناطيس



wood

خشب



frame

إطار



stick (stuck)

يلصق



spring

زنبرك



model

نموذج - مجسم



solar energy

طاقة شمسية



panel

لوحة



motor

موتور

## Nesma's Invention



She read Grandma's **note** under the picture. "I tried to make a car that could travel up walls and upside down. This would be amazing. If there was an **earthquake**, roads might be damaged. Buildings might fall down and make it hard to drive. We could use this car and make a track above the ground. Rescue workers could travel in dangerous places to help people. But I couldn't find a way to make the car stay on the track."

قرأت نسمة ملاحظة الجدة التي تحت الصورة ، والتي تقول «حاولت أن أصنع سيارة يمكنها السير على الحوائط وهي مقلوبة. سيكون هذا مذهلاً. لو أن هناك زلزالاً ربما ستتلف الطرق وربما تنهار المباني ويصبح من الصعب القيادة. يمكننا أن نستخدم هذه السيارة ونقوم بعمل مسار فوق الأرض ويمكن لعمال الإنقاذ السير في الأماكن الخطيرة لمساعدة الناس، لكنني لم أستطع أن أجد طريقة لجعل السيارة تستقر على المسار.»



As Nesma looked at the plan, she had an idea. She was learning about magnets in science lessons at school. Would that work?

وعندما نظرت نسمة إلى الخطة ، خطرت ببالها فكرة. كانت تتعلم عن المغناطيس في حصص العلوم في المدرسة. فهل يمكن أن ينجح ذلك؟



## The Story



The next day, Nesma told Laila her idea. "That sounds great! Can I help?" said Laila. "Yes, please!" said Nesma. Nesma showed Laila her plans. "We need some thin wood for a track, and a long, thin magnet to go under it. We need a small car to go on the track, with a magnet in it." "I'll get the wood!" said Laila. "Great! I'll get some magnets."

في اليوم التالي أخبرت نسمة ليلي عن فكرتها. قالت ليلي «يبدو هذا رائعاً. هل يمكنني المساعدة؟» قالت نسمة «نعم من فضلك!» عرضت نسمة خططها على ليلي قائلةً. «نحتاج لبعض الخشب الرفيع لعمل المسار. ومغناطيس رفيع وطويل لوضعه تحت المسار. ونحتاج لسيارة صغيرة بها مغناطيس لتسير على المسار.» قالت ليلي «سأجلب الخشب.» قالت نسمة «رائع، وأنا سأجلب بعض المغناطيس.»



The two girls worked hard. They made a **frame** for the car to travel on. They stuck the long magnet to the frame, and the small magnet to the car to keep it on the track. The car had a little **spring** inside it. Nesma pulled the car back, then took her hand off it. The energy from the spring turned the wheels. The car moved along the track, but it didn't travel very far. "Why isn't it traveling?" asked Laila. Nesma thought. She was worried. "It isn't fast enough," she said.

عملت الفتاتان بجهد وقامتا بصنع إطار لتسير السيارة عليه وقامتا بلصق المغناطيس الطويل على الإطار، ولصق المغناطيس الصغير على السيارة لتبقى السيارة على المسار. وكان بالسيارة زنبرك صغير بداخلها. سحبت نسمة السيارة للخلف ثم أفلتت السيارة من يدها. وجعلت الطاقة الصادرة من الزنبرك العجلات تدور. تحركت السيارة على طول المسار لكنها لم تتحرك لمسافة بعيدة. سألت ليلي «لماذا لا تتحرك السيارة؟» فكرت نسمة وكانت تشعر بالقلق ثم قالت «إنها ليست سريعة بقدر كافي.»



## Nesma's Invention



They looked at the model. What could they do? The sun was shining through the window, and lots of children were playing outside. Suddenly, Nesma had an idea. "It needs more power!" she said. "We can use solar energy!"

نظرت نسمة وليلي إلى النموذج. ما الذي يمكن أن يفعله؟ كانت الشمس تشرق عبر النافذة، وكان هناك الكثير من الأطفال يلعبون بالخارج وفجأة خطرت ببال نسمة فكرة. قالت نسمة «إن السيارة تحتاج لمزيد من الطاقة. يمكننا أن نستخدم الطاقة الشمسية!»



Nesma asked her mom to help her find the things they needed. Her mom looked on the internet and found a small, cheap panel and a motor. They were perfect. Nesma put the motor on the car and attached it to the wheels. Then she put the panel on the car and used wires to connect it to the motor.

طلبت نسمة من أمها أن تساعد في إيجاد الأشياء التي يحتاجون إليها. بحثت أمها على الإنترنت ووجدت لوحًا شمسيًا رخيصًا وصغيرًا ومحركًا. وكانت هذه الأشياء ممتازة. وضعت نسمة المحرك في السيارة وقامت بتوصيله بالعجلات ثم وضعت اللوح على السيارة واستخدمت أسلاكًا لتوصيل اللوح بالمحرك.



# Activities

## 1 Look and number.

- 1 Nesma read Grandma's note.
- 2 Nesma needed a magnet.
- 3 They made a frame for the car.
- 4 Nesma's mom found a cheap panel.



## 2 Read and complete.

- ① Nesma read Grandma's ..... under the picture.
- ② Nesma tried to make a ..... that could travel up walls and upside down.
- ③ If there was an ....., roads might be damaged.
- ④ We could use this car and make a ..... above the ground.
- ⑤ Nesma couldn't find a way to make the car stay on the .....
- ⑥ Nesma learned about ..... in science lessons at school.
- ⑦ Nesma told Laila her .....
- ⑧ They needed thin wood, ..... and a small car.
- ⑨ Laila would get the .....
- ⑩ Nesma would get some .....
- ⑪ They made a ..... for the car to travel on.
- ⑫ They stuck the long magnet to the .....
- ⑬ They stuck the small magnet to the ..... to keep it on the track.

## Nesma's Invention

- ⑭ The car had a little ..... inside it.
- ⑮ They used ..... energy.
- ⑯ Nesma's mum found a small, cheap ..... and a ..... on the internet.
- ⑰ Nesma put the panel on the car and used ..... to connect it to the motor.



**Answer the following questions.**

- ① What did Nesma read?  
.....
- ② What did Nesma's Grandma try to do?  
.....
- ③ Where was Nesma learning about magnets?  
.....
- ④ How did Laila help Nesma?  
.....
- ⑤ What did Nesma need for the car?  
.....
- ⑥ Why wasn't the car fast enough?  
.....
- ⑦ What did Nesma's mom find her?  
.....
- ⑧ What could they use to get power?  
.....
- ⑨ What did the car have inside it?  
.....





## The Story

# The end



### Vocabulary:



Listen, point and say.



competition

مسابقة



school

مدرسة



nervous

متوتر / عصبي



machine

آلة



judges

لجنة التحكيم





The friends tried again. They put the car in the sun, then started the motor. It worked! They watched happily. The car traveled along, up, and upside down! "It's so clever! Well done, Nesma," said Laila.

"Thank you for helping! It's fantastic."

حاولت الصديقتان مرة ثانية ووضعتا السيارة في الشمس وقامتا بتشغيل المحرك. ونجحت المحاولة! وقامتا بمراقبة ذلك بسعادة. وسارت السيارة مباشرة ثم لأعلى وكذلك وهي مقلوبة! قالت ليلي «إنه شيء رائع جدًا! أحسنت يا نسمة.» قالت نسمة «شكرًا على مساعدتك! هذا رائع.»



On Thursday, the girls were at the competition. There were lots of children from schools around the city. "Are you excited?" asked Laila.

"Yes, but I'm nervous, too," said Nesma. They looked at the other inventions. There were some amazing ideas and models.

وفي يوم الخميس كانت الفتيات في المسابقة وكان هناك الكثير من الأطفال من مدارس من كل أنحاء المدينة. سألت ليلي نسمة قائلة «هل أنت متحمسة؟» قالت نسمة «نعم، لكنني متوترة أيضًا» ثم نظرتا إلى الاختراعات الأخرى. كان هناك بعض الأفكار والنماذج المذهلة.



## The Story



"Look, there's a model of a house that uses wind to keep warm."

"And there's a machine that can help a farmer get water to lots of animals." "There are some great inventions here. I'm happy we came," said Nesma. "I'll write a diary about it when I get home, just like my grandma!"

قالت نسمة «انظري ، هناك نموذج لمنزل يستخدم الرياح ليظل دافئًا.» «وهناك آلة يمكن أن تساعد الفلاح في الحصول على الماء للكثير من الحيوانات.» «يوجد بعض الاختراعات العظيمة هنا. أنا سعيدة أننا أتينا هنا وسأكتب عن ذلك في يومياتي عندما أعود للبيت كما كانت تفعل جدتي!»



The girls were busy talking about the inventions. They didn't see the judges standing next to them. They were looking at the model car and smiling.

"Well done!" said the judges, and the girls looked at them. There was a medal on their car!

"We've won a prize!" said Laila.

كانت الفتاتان مشغولتان بالحديث عن الاختراعات. ولم تلاحظا أن الحكام يقفون بجوارهما. وكانوا ينظرون إلى نموذج السيارة ويبتسمون. قال الحكام «أحسنتم! ونظرت الفتاتان إليهم. وكان هناك ميدالية على سيارتهما. قالت ليلي «لقد فزنا بجائزة!»



# Activities

## 1 Look and number.

- 1 They put the car in the sun.
- 2 I'm nervous.
- 3 They are the judges.
- 4 We've won a prize.



## 2 Read and complete.

- ① Laila and Nesma put the car in the .....
- ② The car traveled a long, up, and .....
- ③ On Thursday, the girls were at the .....
- ④ Nesma was very .....
- ⑤ There's a model of a house that uses ..... to keep warm.
- ⑥ There's a machine that can help a ..... get water to lots of animals.
- ⑦ Nesma would write a ..... like her grandma.
- ⑧ There were lots of children from ..... around the city.
- ⑨ The ..... were looking at the model car and smiling.
- ⑩ The girls won a .....

## 3 Answer the following questions.

- ① Where did the friends put the car?  
.....
- ② How did Nesma feel about the competition?  
.....
- ③ What models were there in the competition?  
.....
- ④ What would Nesma write?  
.....
- ⑤ What were the girls talking about?  
.....



# General Activities

## 1 Look and number.

- 1 I can't think of anything to make.
- 2 You should enter. You'd be really good.
- 3 I know someone who used to make drawings and inventions like this.
- 4 Well done!
- 5 This was Grandma's?
- 6 I'm happy we came.



## 2 Read and match.

- |                       |                                     |
|-----------------------|-------------------------------------|
| 1) Nesma wanted to be | a) what to make.                    |
| 2) Nesma didn't know  | b) at her grandma's drawings.       |
| 3) Nesma couldn't     | c) an idea about magnets.           |
| 4) Nesma looked       | d) an inventor.                     |
| 5) Nesma had          | e) get her ideas right.             |
| 6) Nesma asked        | f) her mom to help her find things. |

1- ( d ) 2- ( ) 3- ( ) 4- ( ) 5- ( ) 6- ( )

**3** Read and write (True) or (False).

- ① Nesma read about the competition on the school website. (.....)
- ② The prize will help the school. (.....)
- ③ Nesma knew that she wanted to make a toy. (.....)
- ④ Nesma showed her ideas to her dad. (.....)
- ⑤ Nesma's dad showed her a box of his drawings and plans. (.....)
- ⑥ Grandma found a way to make the car travel upside down. (.....)
- ⑦ Nesma thought that magnets could make the car stay on the track. (.....)
- ⑧ At first, the car wasn't fast enough. (.....)

**4** Read and answer the following questions.

- ① Why did the girls use magnets?  
.....
- ② How did they make the car move at first?  
.....
- ③ Why didn't the car go round the track?  
.....
- ④ What did Nesma decide to do to help the car move faster?  
.....

