

# STUDENT EXPLORATION BUILDING DNA GIZMO ANSWERS

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### Student Exploration: Building DNA Gizmo Answers

**Question 1: What are the nitrogenous bases found in DNA? Answer:** Adenine (A), thymine (T), cytosine (C), and guanine (G).

**Question 2: What is the complementary base pairing rule? Answer:** A pairs with T, and C pairs with G.

**Question 3: What are the two strands of a DNA molecule held together by? Answer:** Hydrogen bonds between the complementary base pairs.

**Question 4: How many codons are possible with the four nitrogenous bases? Answer:** 64 ( $4 \times 4 \times 4$ )

**Question 5: What type of chemical bond connects the base to the sugar-phosphate backbone of a DNA molecule? Answer:** A covalent bond

**What's happening to Ellie Read?** Following Ellie, as she begins to notice changes to her body, this simple resource helps parents and carers teach girls with autism and related conditions about puberty. It covers all the changes that they will experience, both emotional such as new feelings and physical such as periods.

### What's happening to Ellie Pages?

**What's going on with Ellie?** A Book About Puberty for Girls and Young Women with Autism and Related Conditions. Ellie notices that her body is changing. Hair is growing in new places and there are other changes happening too. Ellie's mum

helps her understand that she has started growing into a woman.

**What is the book about the girl with a brother who has autism?** Autism, The Invisible Cord follows 14-year-old Jenny as she describes her day-to-day life with her younger autistic brother, Ezra. Ezra can be both her best friend as well as her biggest obstacle to living a normal life, and Jenny often finds herself stuck worrying about her younger brother.

**What is the book Ellie's story about?** Summary: Trained as a search-and-rescue dog since puppyhood, Ellie can track and find people who are physically lost, but it is her owners, widower Jakob and lonely Maya, who challenge her to find a way to save people who are lost in other ways.

**What is the problem in Ellie's story?** The conflict In the book Ellie's Story, is Person Vs. Themselves because Ellie battles herself throughout the story. Sometimes Ellie battles herself on whether she is a good or bad dog, or if she has done her job right. Although sometimes Ellie thinks she is a good dog when she finds someone and their happy.

**What happened to Ellie in the book then she was gone?** In the alternate ending, Ellie doesn't die, instead Floyd finds Ellie in the basement after he kills Noelle. He's scared of losing Poppy, so he keeps her alive in his basement. After he kills himself, Laurel and Ellie are reunited. See Then She Was Gone on Amazon.

**What happens in the Ellie Chronicles?** Sequel series: The Ellie Chronicles The three books detail Ellie's struggles in post-war life in Wirrawee. Ellie finds herself running the family farm after the murder of her parents, and dealing with Gavin, the deaf boy she rescued during the war.

**How old was Ellie when she disappeared?** Main Characters: Ellie Mack: Went missing when she was 15.

**What condition does Ellie have?** "Our doctor thinks that the cordyceps in Ellie has grown with her since birth. It produces a kind of chemical messenger. It makes normal cordyceps think that she's cordyceps. It's why she's immune."

**Who does Ellie end up with?** Ellie vowed revenge and pursued Abby to Seattle. Her efforts were fruitless, leading her to retire on a farm with her girlfriend Dina and

her son JJ.

**Where is Ellie going at the end?** Ellie's future is uncertain, and is likely to remain so unless a The Last of Us Part 3 is ever developed. The final shot of Part 2 has Ellie leaving Joel's guitar in the farmhouse, which already has moth-eaten curtains and peeling paint, suggesting Dina and JJ moved out shortly after Ellie set off for Santa Barbara.

**What is the book about autism?** Carly's Voice: Breaking Through Autism In this international bestseller, father and advocate for Autism awareness Arthur Fleischmann blends his daughter Carly's own words with his story of getting to know his remarkable daughter—after years of believing that she was unable to understand or communicate with him.

**What is the book about an autistic girl finding love?** The Kiss Quotient follows the unexpected romance between Stella Lane, a 30-year-old autistic woman, and Michael Phan, the male escort she hires to help her become more comfortable with intimacy.

**What is the movie where the girl has autism?**

**What age is Ellie's story for?**

**What is Ellie's backstory?** Ellie was born in 2009 to Anna and an unnamed father. During Ellie's birth, Anna was bitten on the thigh by an infected woman. Because of the bite, Ellie was exposed to a trace amount of the Cordyceps brain infection.

**What happens at the end of Ellie's story?** In the end, Maya and Ellie meet up with Jakob, who has married and now has an open and caring heart, and Ellie is happy and at peace with her life. Mazes, word scrambles, coloring and other fun activities to make reading along with "Ellie's Story" even more engaging for young readers.

**What did Ellie suffer from?** Having lost many people in her life, she suffers from severe monophobia and survivor's guilt. This results in her becoming a very hardened person; she uses violence without hesitation and frequently employs profane language.

**What was Ellie's illness?** Ellie had a rare, neurodegenerative disorder known as LBSL (short for leukoencephalopathy with brainstem and spinal cord involvement and lactate elevation).

**Is Ellie's story a movie?** Ellie's Story (children's book, part of a movie)

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**What reading level is Ellie's story?**

**What is the puberty book for girls with ASD?** The Growing Up Guide for Girls is a one-stop guide for young girls on the autism spectrum explaining all they need to know about puberty and adolescence. The pre-teen and teenage years are a bumpy time when bodies change, emotions are high and peers are developing at different paces.

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## **Unveiling the World of Sharon Draper's "Out of My Mind"**

Sharon Draper's "Out of My Mind" is a captivating novel that explores the complexities of life for an exceptional child named Melody. Here are some key questions and answers about the book:

### **1. What is Melody's disability?**

Melody has cerebral palsy, a condition that affects her motor skills and speech. She is confined to a wheelchair and cannot speak or write independently.

### **2. How does Melody communicate?**

Melody uses a letter board to communicate. She picks out letters one by one to form words and sentences. This process is slow and laborious, but it allows her to express her thoughts and feelings.

### **3. What are the challenges Melody faces?**

Melody faces numerous challenges, including prejudice and isolation from her peers. She is often misunderstood and underestimated due to her disability. She also struggles to find a way to be heard and included in her community.

### **4. Despite her challenges, what are Melody's dreams?**

Melody dreams of being a writer and reaching the world with her words. She is a keen observer of her surroundings and has a remarkable imagination. Her determination to overcome obstacles and share her perspective inspires others.

### **5. How does the novel challenge societal norms?**

"Out of My Mind" challenges societal norms by presenting Melody as a complex and intelligent young woman who deserves respect and inclusion. It emphasizes the importance of recognizing the potential and value of all individuals, regardless of their disabilities.

## **When Leadership Goes Wrong: Destructive Leadership Mistakes and Ethical Failures**

Leadership is a critical aspect of any organization, but when it goes wrong, it can have devastating consequences. Destructive leadership mistakes and ethical failures can lead to decreased productivity, employee dissatisfaction, and even legal liability.

### **1. What are some common destructive leadership mistakes?**

Some of the most common destructive leadership mistakes include:

- **Micromanagement:** Overly controlling leaders who micromanage their employees stifle creativity and motivation.
- **Lack of communication:** Leaders who fail to communicate effectively create confusion and uncertainty among their teams.

- **Unrealistic expectations:** Setting unrealistic goals and expectations can lead to employee burnout and frustration.
- **Favoritism:** Treating certain employees more favorably than others undermines team morale and creates a toxic work environment.
- **Bullying:** Hostile and aggressive leaders create a culture of fear and intimidation, which can damage employee well-being and productivity.

## 2. What are some ethical failures that leaders can commit?

Ethical failures by leaders can include:

- **Conflicts of interest:** Acting in ways that benefit the leader personally rather than the organization or its members.
- **Unethical decision-making:** Making decisions that compromise ethical values, such as lying or cheating to gain an advantage.
- **Discrimination:** Treating employees unfairly based on protected characteristics, such as race, gender, or religion.
- **Misuse of company resources:** Using company assets for personal gain or engaging in unethical accounting practices.
- **Sexual harassment:** Creating a hostile or intimidating work environment based on sexual behavior.

## 3. What are the consequences of destructive leadership mistakes and ethical failures?

The consequences of destructive leadership mistakes and ethical failures can be severe:

- **Decreased employee morale:** Toxic work environments lead to low employee motivation, engagement, and productivity.
- **Increased turnover:** Employees are more likely to leave organizations with poor leadership or ethical issues.
- **Legal liability:** Unethical or illegal actions by leaders can expose organizations to legal consequences, such as lawsuits or fines.

- **Damaged reputation:** Destructive leadership and ethical failures can tarnish an organization's reputation, making it difficult to attract and retain employees and customers.
- **Loss of trust:** When employees lose trust in their leaders, they are less likely to follow their directives or respect the organization.

#### 4. How can leaders avoid destructive leadership mistakes and ethical failures?

Leaders can avoid destructive leadership mistakes and ethical failures by:

- **Developing self-awareness:** Understanding their strengths and weaknesses, as well as their own biases.
- **Communicating effectively:** Sharing clear expectations, providing timely feedback, and listening to employee concerns.
- **Setting realistic goals:** Establishing achievable targets that challenge employees without overwhelming them.
- **Treating employees fairly:** Valuing diversity and preventing discrimination or favoritism.
- **Maintaining ethical integrity:** Upholding ethical values, avoiding conflicts of interest, and making decisions based on ethical principles.

#### 5. What should employees do if they experience destructive leadership or ethical failures?

Employees who experience destructive leadership or ethical failures should:

- **Document the incidents:** Keep a record of the behavior and its impact.
- **Report the behavior:** Inform higher-ups in the organization or consider reporting to external authorities if necessary.
- **Protect themselves:** Seek support from trusted colleagues, mental health professionals, or legal counsel.
- **Leave the organization:** If the situation is unbearable or the organization is unwilling to address the issues, consider leaving.

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