

UNIT 6 Journeys / Visions of the Future

Independent Reading

A STEM school

FROEBEL

BILINGUAL SCHOOL

Home of the Space Generation



$(\ln(x))' = \frac{1}{x}$ $\frac{a}{\sin A} = \frac{b}{\sin B}$ $\sin \alpha = 0,5$ $\int \frac{dx}{\sqrt{x^2+a^2}} = \ln|x+\sqrt{x^2+a^2}|+C$ $(a+b)^2 = a^2+2a$ $\operatorname{tg} \alpha = \frac{\sin \alpha}{\cos \alpha}$

$(x^a)^k = 1 + \sum_{n=1}^{\infty} \binom{\alpha}{n} x^n$ $e^{i\pi} + 1 = 0$ $\bar{A} \cdot (B + \bar{C}) = y = kx + m$ $x \in [3; +\infty)$ $(x^n)' = nx^{n-1}$

$C_n^k = \frac{n!}{(n-k)!k!}$ $\left| \begin{matrix} \vdots & \vdots & \vdots \\ \vdots & \vdots & \vdots \\ \vdots & \vdots & \vdots \end{matrix} \right| = - \left| \begin{matrix} \times & \times & \times \\ \times & \times & \times \\ \times & \times & \times \end{matrix} \right| + \left| \begin{matrix} \times & \times & \times \\ \times & \times & \times \\ \times & \times & \times \end{matrix} \right|$ $\sin^2 \alpha + \cos^2 \alpha = 1$ $\sinh x = -i \sin(ix)$ $(\sqrt{x})' = \frac{1}{2\sqrt{x}}$


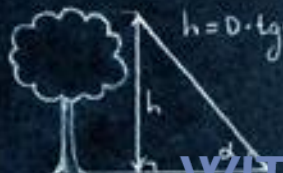
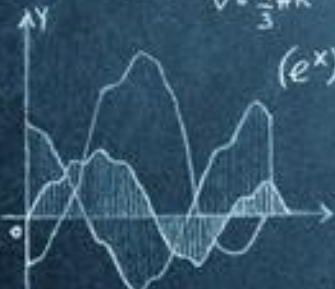
$(e^x)' = e^x$ $\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$ $f(x) = \frac{1}{\sigma\sqrt{2\pi}} \exp\left(-\frac{(x-\mu)^2}{2\sigma^2}\right)$ $U = \int_{\pi}^b f^2(x)$

$\begin{pmatrix} a_1 & b_1 \\ a_2 & b_2 \end{pmatrix} \cdot \begin{pmatrix} c_1 \\ c_2 \end{pmatrix} = \begin{pmatrix} a_1c_1 + b_1c_2 \\ a_2c_1 + b_2c_2 \end{pmatrix}$ $i = \sqrt{-1}$ $e^{ix} = \cos x + i \sin x$ $\int x^n dx = \frac{x^{n+1}}{n+1} + C$

$b^2 - 4ac$ $\int \frac{x^n}{n!}$ $A_n^k = \frac{n!}{(n-k)!}$ ∞ $\sin x$ $\log_a A = \cos B \cos C + \sin B \sin C$ $S = 4\pi R^2$ $V = \frac{4}{3}\pi R^3$

$\frac{e^x + e^{-x}}{2}$ $\log_a x = \frac{1}{p} \log_a x$ $\lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n = e$ $h = 0 \cdot \operatorname{tg} \alpha$ $S = \frac{1}{2} ab \sin \alpha$ $y = x^2$ $(e^x)' = e^x$ $\int_a^b f(x)$ $\pi = 3,14$ $y = |x-2|$

$\lim_{n \rightarrow \infty} \frac{x_1 + x_2 + \dots + x_n}{n}$ $\sum_{n=0}^k \frac{f^{(n)}(a)}{n!} (x-a)^n$ $e^x \cos x = \operatorname{Re}\{e^{ix}\}$ $x! = 1$ $\sum_{k=0}^{\infty}$

$\cos y - \sin x \sin y$   

THE FEELING OF POWER

WITH
JIM SOTO

Proclus



This therefore is Mathematics: She reminds you of the invisible forms of the soul; She gives life to her own discoveries; She awakens the mind and purifies the intellect; She brings light to our intrinsic ideas; She abolishes oblivion and ignorance which are ours by birth.

AZ QUOTES

Proclus was one of the most influential mathematicians of ancient times.

SPEAK YOUR MIND

Ask anyone to make a simple mathematical computation and you'll see more people whipping out a calculator than using their mind.

What would happen if technology became so advanced that people did not need to compute for themselves, and over time eventually forgot that there ever was a time when they did?

Take a minute to answer in the notebook.



TECHNOLOGY'S IMPACT ON US

Some argue that collectively, technology has made us smarter, more capable and more productive, by giving us eternal memory, where we can recall anything and learn from it, although it not made us wiser.

Others however state that it makes humans more lazy, dependent and stupid. Is technology good or bad for the brain? In addition to its negative effects on cognition, excess technology use is associated with a higher risk for depression and anxiety, and can make us feel isolated and overwhelmed.

Author Isaac Asimov was generally optimistic about the potential of technology, but he also recognized the dangers of over-reliance on it. He explored the unintended consequences of technology and emphasized the need for humans to exercise caution and responsibility in its development and use. Asimov believed that technology could solve many problems, but warned of the risks of becoming too dependent on it. Overall, his views on technology were complex and nuanced, reflecting both his optimism about its potential and his concern about its risks and unintended consequences.



In "The Feeling of Power," the conflict is between two opposing views on the role of technology in the distant future: the conventional reliance on computers versus the alternative emphasis on human mental abilities. The story explores the tension between efficiency and convenience versus the value of preserving human skills.

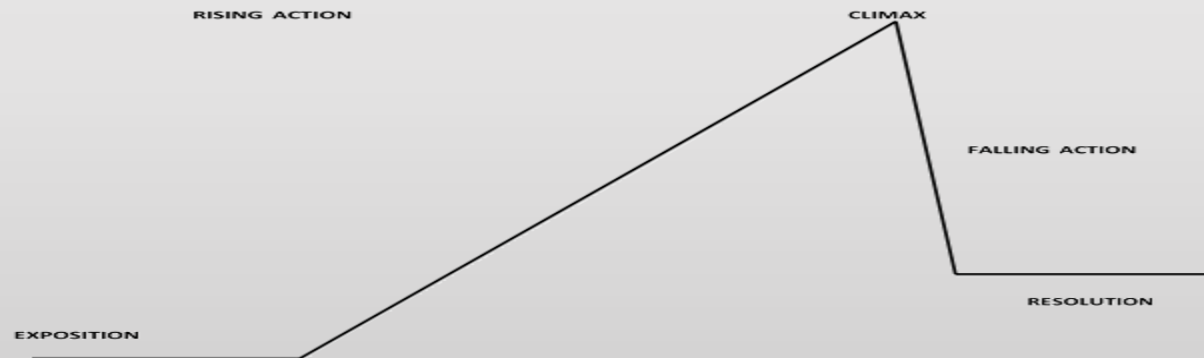


ASSESSMENT

After reading the short story, complete these activities:

1. ANALYZE LITERATURE

- **Plot** - Write about the events that occur in each part of the plot of “The Test.” Use the plot diagram to help you remember the function of each part.



1. Exposition: _____
2. Rising Action: _____
3. Climax: _____
4. Falling Action : _____
5. Resolution : _____

2. ANALYZE LITERATURE

- **Describe and Critique: Fiction** - Describe the story "The Feeling of Power."
Write the information to fill in this chart.

Title and Author: _____

Summary: _____

Which elements of fiction does the author use especially effectively?: _____

What is your opinion of the story? (What do you like and dislike about it? Why?): _____

