Password Strength Report

# Password Strengt	th Report			
## Passwords Test	red:			
S.No Password Feedback	Strength Tool Used 	Strength/Score	Crack Time	1
1 123456 numbers	passwordmeter.com 	Very Weak (4%)	Instant	Too short, only
2 Hello2 dictionary word	howsecureismypassword.net 	Weak	A few seconds	No symbols
3 G@l@xy! characters	passwordmeter.com 	Strong (67%)	2 minutes	Good mix of
4 T!gerL1ly+Su Excellent complexit	n\$et25 security.org/how-secure- y and length	-is-my Very Stro	ng(100%) 7 qua	drillion years

Summary of Analysis:

- Short and simple passwords (like "123456") are extremely weak.
- Adding just one capital letter or number helps, but not enough.
- Special characters and increased length boost strength greatly.
- Strongest passwords had 14+ characters, with mixed types.

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## Best Practices for Strong Passwords:				
- Use **12 or more characters**				
- Combine **uppercase, lowercase, numbers, and special symbols**				
- Avoid common patterns (e.g., "password", "1234")				
- Use **passphrases** that are easy to remember, hard to guess				
- Never reuse the same password across websites				
- Store passwords securely using a **password manager**				
## Common Password Attacks:				
### 1. Brute Force Attack				
Tries every possible character combination until it gets the right one. More characters = longer time.				
### 2. Dictionary Attack				
Uses a predefined list of common words or passwords. Avoid real words to defend against this.				
### 3. Phishing & Social Engineering				
Trick users into giving passwords. Not technical, but very common.				
Thek users into giving passwords. Not technical, but very confinon.				
## Why Complexity & Length Matter:				
A password with 12+ mixed characters could take **centuries** to crack vs. one with 6 letters which could be				
broken **in seconds**.				
				
## What is Multi-Factor Authentication (MFA)?				
An extra layer of security requires something you know (nassword) + something you have (OTP device)				

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Password Managers:

Secure tools that:

- Generate strong passwords
- Store them encrypted
- Auto-fill credentials when needed (e.g., Bitwarden, LastPass, 1Password)

What Are Passphrases?

A sentence or phrase that is long but memorable.

Example: `My_D0g_E@ts_@pples_@t_7PM!` is better than `Apples123`