

Low-Spec Gaming Optimization Checklist

A practical checklist to improve gaming performance on low-end PCs and laptops.

1. Basic System Cleanup

- ■ Uninstall unused programs and games
- ■ Empty recycle bin and temporary files
- ■ Disable unnecessary startup applications
- ■ Run disk cleanup
- ■ Ensure at least 15–20% free storage space

2. Graphics & Performance Settings

- ■ Lower screen resolution
- ■ Set graphics preset to Low or Very Low
- ■ Disable shadows, motion blur, and anti-aliasing
- ■ Enable performance mode in-game
- ■ Limit FPS to a stable target (30 or 60 FPS)

3. Windows Optimization

- ■ Set Power Mode to High Performance
- ■ Turn off background apps
- ■ Disable Xbox Game Bar if unused
- ■ Update Windows and drivers
- ■ Disable unnecessary visual effects

4. Driver & Hardware Maintenance

- ■ Update GPU drivers
- ■ Clean dust from fans and vents
- ■ Monitor CPU and GPU temperatures
- ■ Use a cooling pad for laptops
- ■ Check RAM usage during gameplay

5. Internet & Online Gaming

- ■ Use wired internet if possible
- ■ Close downloads and streaming apps
- ■ Restart router regularly
- ■ Choose the nearest game server
- ■ Reduce background bandwidth usage

6. Advanced Tweaks

- ■ Use lightweight game launchers
- ■ Enable Game Mode in Windows
- ■ Install games on SSD if available
- ■ Use optimization tools carefully
- ■ Create restore points before major tweaks

7. Recommended Low-Spec Games

- ■ Minecraft (optimized settings)
- ■ Valorant
- ■ League of Legends
- ■ Terraria
- ■ Stardew Valley
- ■ Hades
- ■ Among Us

Quick Performance Tips

Tip	Benefit
Lower resolution	Big FPS boost
Close background apps	Frees RAM and CPU
Use SSD storage	Faster load times
Cap frame rate	More stable gameplay
Reduce shadows/effects	Less GPU strain