



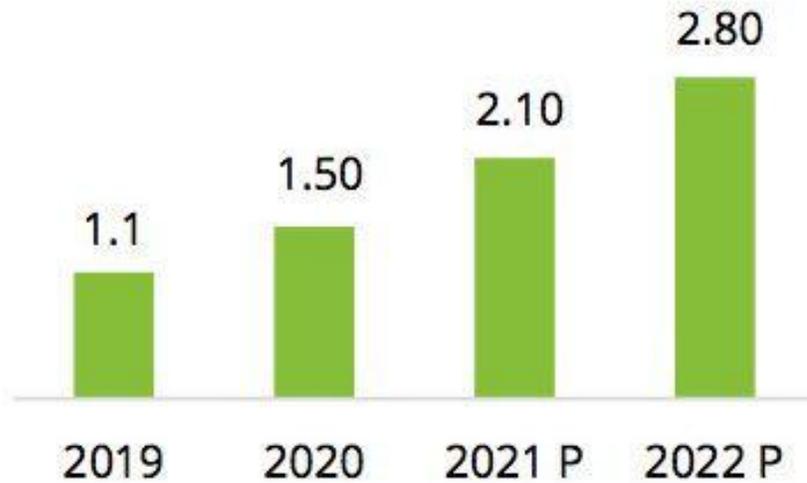
**Digital Games : Risks and ways to
Combat**
Prof.. Surabhi Pandey
IIPA, New Delhi

India - a Nation of Gamers Statistics

- The gaming industry is all set to surpass \$182 billion in 2025
- Close to half of the internet users in India played online games in 2021.
- According to Inc42, the number of internet users in India is set to surpass one billion in 2023 while the number of online gaming users in India is also projected to grow from 481 million users in 2022 to 657 million users in 2025.

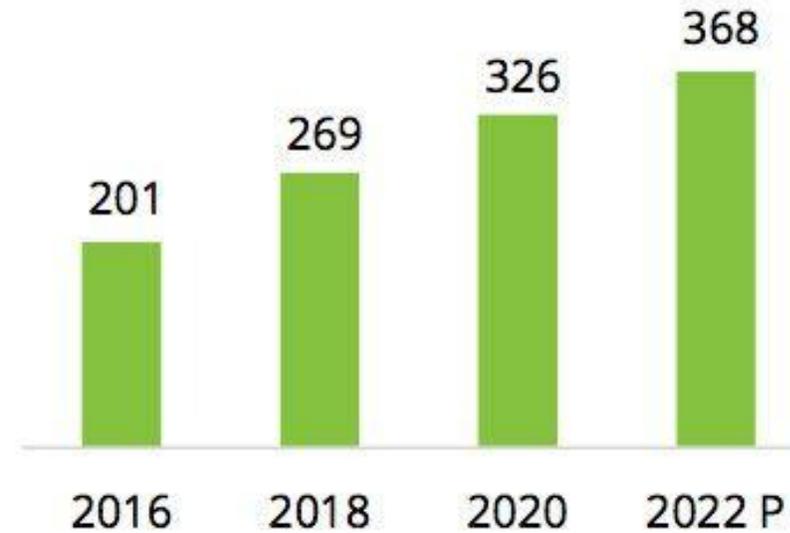
Insights :

**Indian gaming market
(US\$ billion)**



Source: Frost & Sullivan, Deloitte analysis

**Number of online gamers
in India (million)**



Source: The Power of Mobile Gaming in India, MMA and Kantar IMRB in association POKKT

An average Indian online gamer:

is introduced to online gaming
through their friends, family and
peer group

is engaged in gaming for stress
relief and social interaction •
prefers puzzle, action and
adventure games

India has a diverse consumption pattern and gaming behavior. This diversity exists across



Gamer profile – An average Indian gamer is a below 24 year male



Genre preferences – Puzzle, Action and Adventure games are preferred across age and gender groups

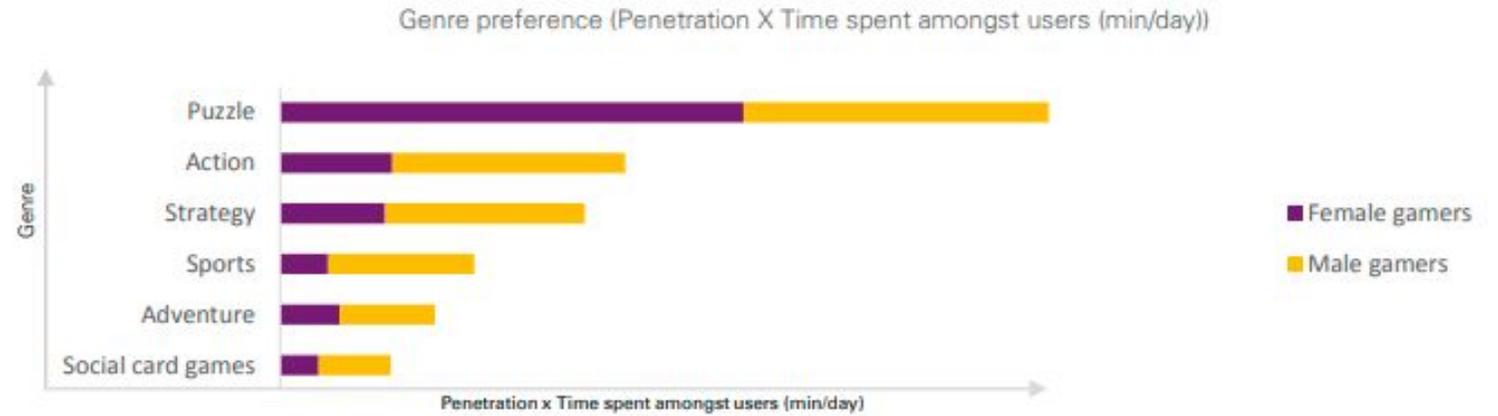


Consumption drivers – Friends, family and peer group play a critical role in discovery and download of a new game

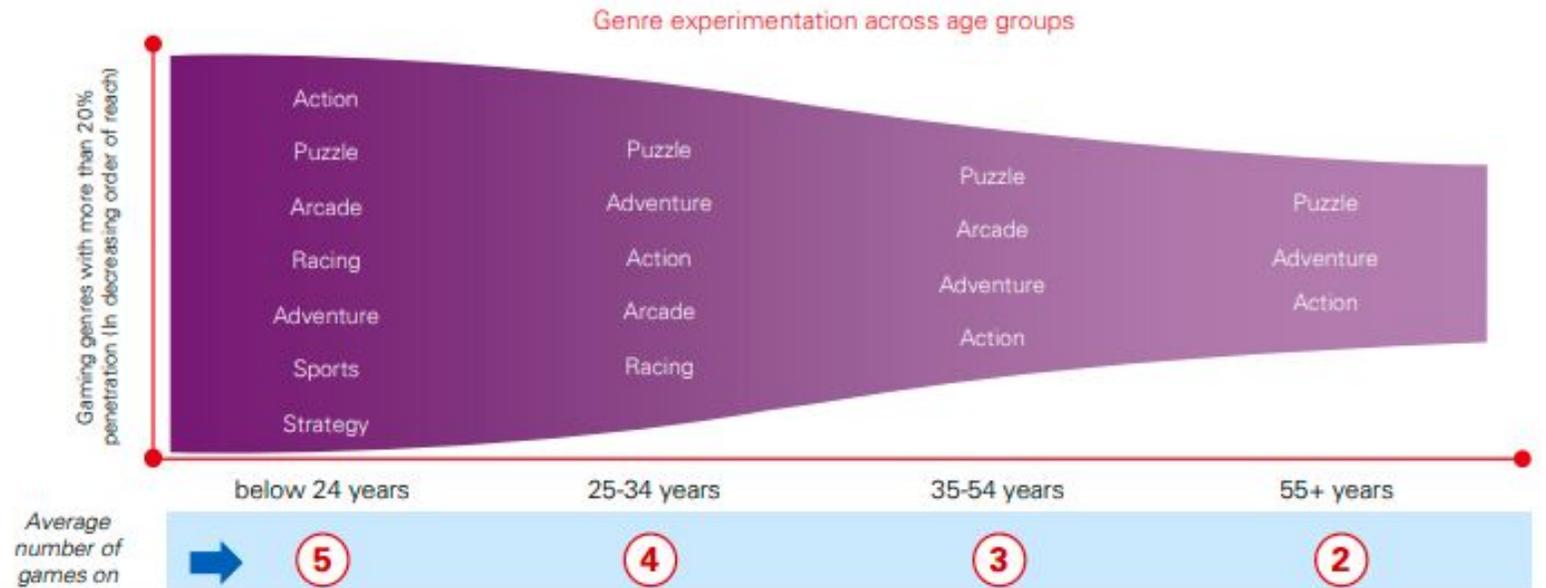


Payment behavior – Availability of free substitutes and perception of high pricing are limiting the realization of revenues through gamer(s)

Demographics and engagement levels

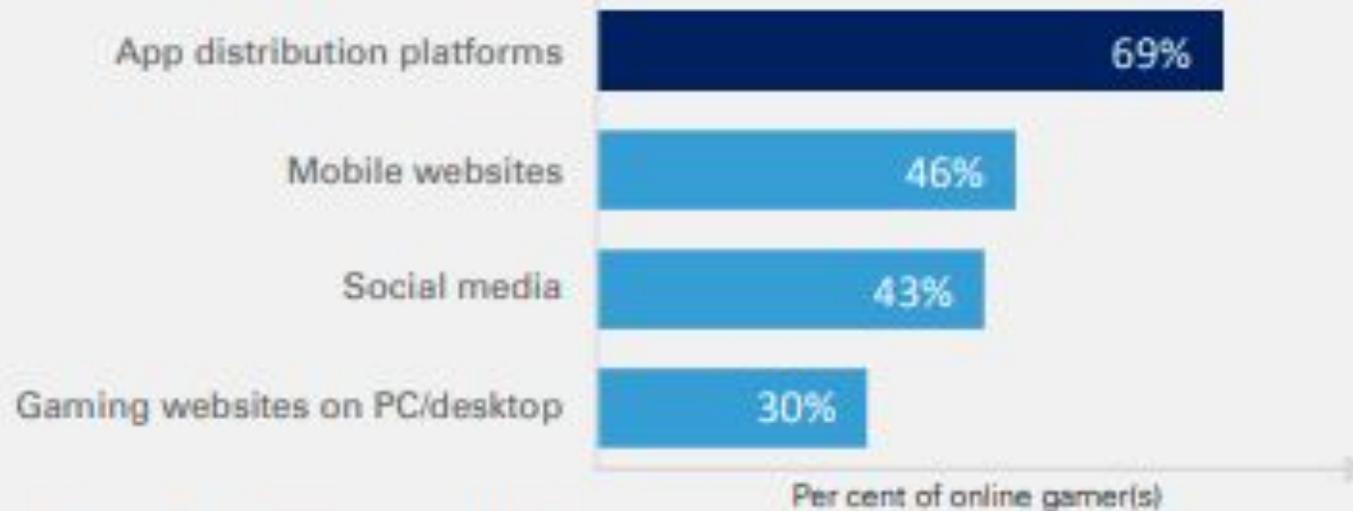


Source: Nielsen, Smartphone Panel, Urban Connected Online Gamer(s), N=8136

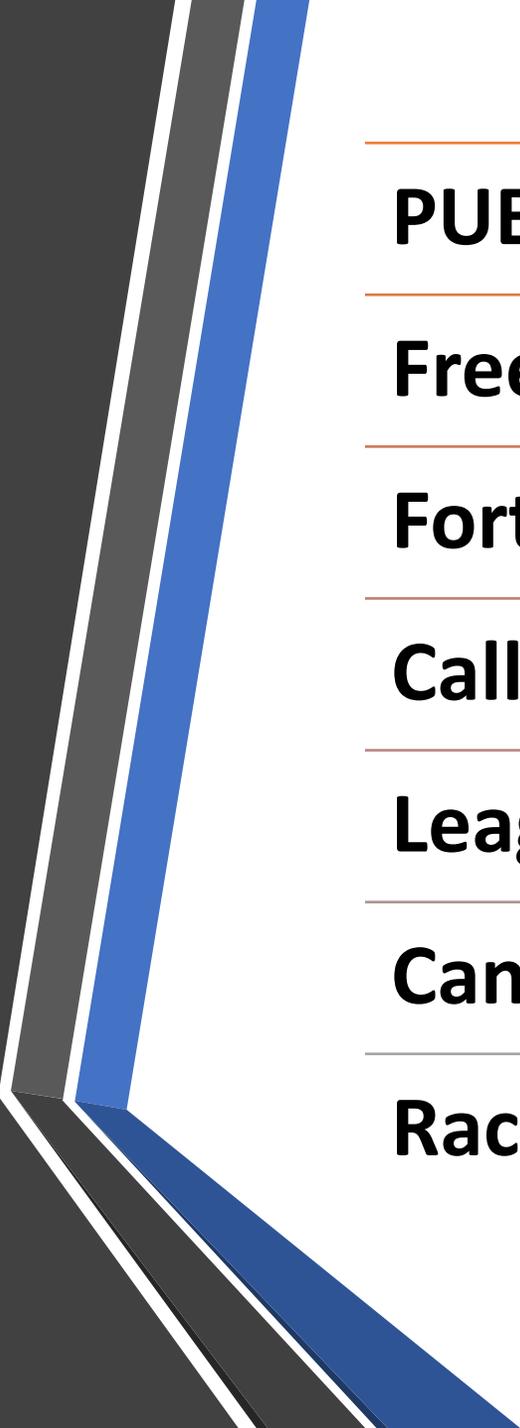


Channels for Playing or Downloading Games

Channel for playing or downloading games



Source: Nielsen, Primary Survey, Urban Online Gamer(s), N=1807



Most Popular Online Games of 2022:

PUBG

Free fire

Fortnite

Call of Duty Mobile

League of Legends (LOL)

Candy Crush Saga

Race Master 3D



Digital Game : Risks



Crimes take places due to Online Games

- **Crime among city youths due to online gaming a concern: Cops**
- **Jaipur police** have recorded several cases in the recent past ..

Chhattisgarh: Woman files cyber fraud case after son buys 'weapons' worth lakhs for online game

- According to the police, the child had made 278 transactions for an online battle game from her phone over a period of nearly three months, which had gone undetected because no OTP was asked for the debits a fraud of Rs 3.2 lakh.
- **Exclusive: Mumbai teen kills self, could be first Indian case of Blue Whale suicide challenge**
- *A teenager's suicide in Mumbai is being linked to a challenge-based underground online game that puts players through a series of 49 tasks before ultimately asking them to kill themselves by jumping off a building.*
- **Delhi: 19-year-old, who killed family, was addicted to online games**

HIGHLIGHTS

**Metaverse : A different world
where crime needs to be
defined first**

In Focus

न्यूज़ 7

HOME NOIDA NEWS GREATER NOIDA NEWS NOIDA EXTENSION NEWS GHAZIABAD NEWS

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Ghaziabad News

50 lakhs cheated from 100 children in the name of selling pubg tools

By **ekta** - May 20, 2022

Online Gaming of Minor Leads Woman to Lose Rs 19 Lakh in Sivsagar, Assam

Addicted by the online game, a boy transferred a total of Rs. 19 lakh to their accounts post which his mother lodged a complaint with the police.



Agra News: ऑनलाइन वेटे ने रिटायर्ड फौजी के उड़ाए, 1 महीने बाद फिर

Not A Game Anymore

2020: Andhra Pradesh bans online gaming, betting and gambling

APRIL 2021: Kerala HC refuses to stay state's notification banning online rummy played for stakes



AUG 2021: Madras HC strikes down law banning online betting games like rummy and poker as ultra vires of the Constitution

Telangana planning new rules for online and fantasy gaming for self-regulation as well as game development

Online gaming segment in India may more than double to ₹29,000 crore

Number of gamers expected to rise to 657 m by 2025, says a KPMG report

Delhi teen who stabbed parents 26 times was addicted to online game: Police

The accused had rented a room in Delhi where he would spend hours with his friends watching TV and playing online games.

According to the police, Suraj alias Sarnam Verma, had rented a room in Delhi where he would spend hours with his friends watching TV and playing online games.



Home > States > Karnataka

Murder over video game: Minor held in Karnataka

According to Police sources, a fight between the victim Akeef and the accused over PUBG game had culminated in the murder.



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According to Police sources, a fight between the victim Akeef and the accused over PUBG game had culminated in the murder. They said Akeef always played

The Gangers of Online Gaming

- ▶ Addiction
- ▶ Cyberbullying
- ▶ Risk of losing money
- ▶ Malware
- ▶ Privacy problems
- ▶ Hidden fees



Examples of Coronavirus Gaming Scams

- ▶ Directing gamers to third-party websites
- ▶ Targeting gamers' IP addresses
- ▶ Phishing
- ▶ Fake mobile versions of popular online games
- ▶ Targeting children



Digital Crimes In The Metaverse

- We are still struggling with the first age cyber crimes and seem to be making a lot of hue and cry out of it.
- Money laundering to swindling, cheating and fraud, conveniently moved on the cyber world
- This is the Metaverse, a 2D digital world is getting transformed into a 3D virtual world
- Not having learnt any lessons from it, we are getting into Metaverse with the same ignorance
- Within 60 seconds of joining Meta's (Facebook) metaverse platform Horizon Venues, London based Nina Jane Patel said of three-four avatars sexually harassed her. **"They essentially, but virtually, gang-raped my avatar and took photos as I tried to get away."** She recalled "My physiological and psychological response was as though it had happened in reality."



Tips to safely download games

Get Your Apps from Reliable Sources

Avoid Third-Party App Stores

Sideload Android Apps

Be Aware of Copycats

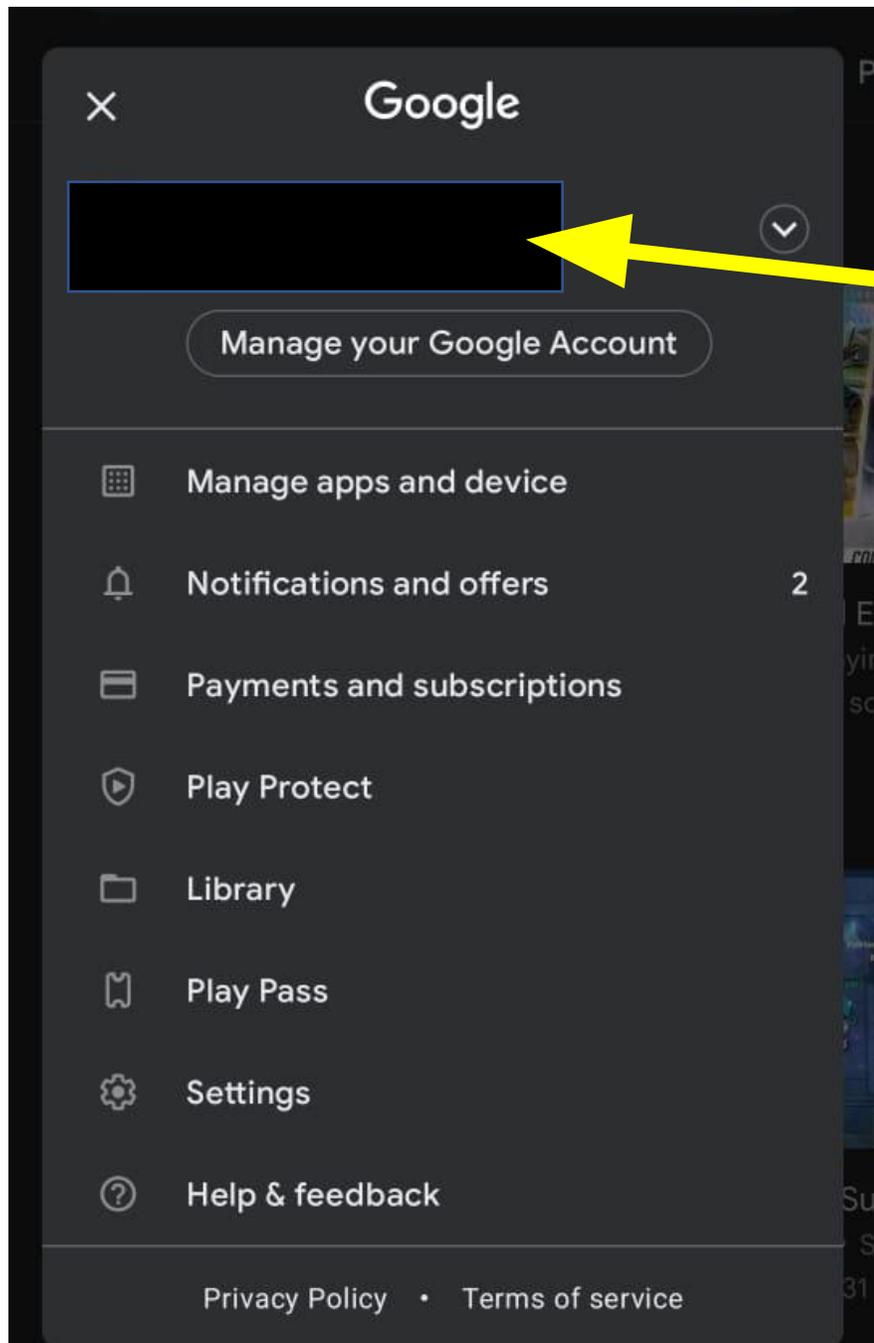
Checkout App Permissions

How to Stay Secure When Gaming Online

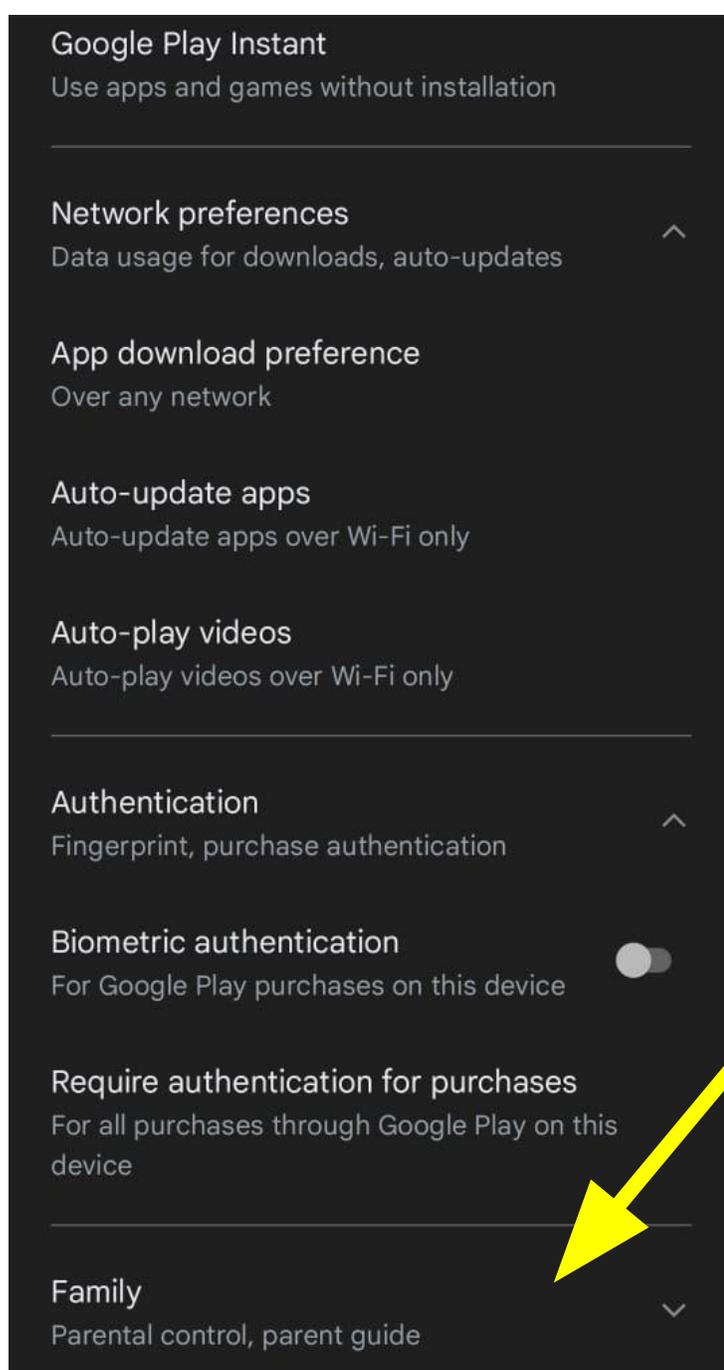
- **Avoid Using External Cheat Application** (All of us like to win, and this urge can sometimes lead you to download cheats that provide your in-game character with abilities such as God mode, infinite ammo, and others. But many cheat applications are riddled with malware and ask you to disable your antivirus software during installation.)
- **Don't Reveal Personal Information**(All online games require you to use a gamer tag which other players use to identify you. Ensure that this gamer tag doesn't contain any personal information such as your name, email, and location.
- Double-check the privacy settings on your video game clients, such as Steam, and see what information is visible to your friends.

How to Stay Secure When Gaming Online

- **Use Gaming Mode on Your Antivirus Software**
- **Use a Firewall**(The most basic step you can take to protect yourself from threats while gaming online is to enable the firewall on your device.)



Add your email address to your kids/or any other person's phone in Google play store So that you get the payment notification if they perform any transaction in buying from the playstore



Enable Parental control of the Google play.

For enabling

- Click your profile in top right of playstore
- Select settings
- Select General settings
- Enable Parental Control

Tips for Safe Gaming (Parents)

- **Explore Online Games Together**
- Play with your child(ren) or sit with them while they play. You may have fun and learn about gaming, too!
- Check the ratings of the games your child(ren) are playing to ensure it is appropriate. Many games come with a rating on them from the Entertainment Software Rating Boards (ESRB).
- Stick to reputable games from reputable sites such as:
 - MSN Games
 - Xbox Live
 - Playstation Store
- Be aware of in-app spending that can occur with certain games. Kids may be tempted to spend additional money online with in-app options.



Tips for Safe Gaming (Kids)

- Keep personal information a secret. Never share information about yourself or your family with other players (real name, home address, age, gender, or pictures).
- If you feel you want/need to include a small amount of information, check with your parents first to make sure it's OK.
- Protect your online gaming accounts with strong passwords. Passwords should be at least eight characters (or longer) and include a mix of letters, numbers, and symbols.
- Make a safe gamer name. If you struggle with this, ask a parent for help. Your gamer name should not reveal any personal information, should not be suggestive or include location information.
- NEVER meet an "online" friend in person with permission from your parents. If you do meet up be sure to choose a safe, public location and bring another adult or friend with.

12 ONLINE SAFETY TIPS
EVERY CHILD NEEDS TO LEARN

A stranger online is still a stranger

Too much of anything can be bad, use the internet wisely.

Don't lie on social media	Don't believe everything you see online	Do not share personal information	Use the internet and social media for good and to learn.
Remember anything you share stays online forever.	Likes and followers aren't really that important	Don't click all links	
Do not keep secrets from your parents.	Do not be rude online	Cyberbullying is wrong.	

Game Purchases, And How to Put a Cap on It?

- Some games already have inbuilt requirement of payments. These could be to buy a special game artifact, or gain access to advanced levels, it could be anything from a wheel for a sports car, or a special



Ways to Keep Kids Safe When Playing Video Games Online

- Make sure the game is age appropriate. ...
- Talk to your child about chatting with strangers online. ...
- Enable parental controls. ...
- Disable additional features that are not necessary. ...
- Play the game with your child!

CYBER SAFETY AWARENESS WITH A FEW TIPS

Secure

- Secure your internet connection and keep software, operating systems, and browsers up-to-date.

Use

- Use parental, privacy, and safety settings in-game, app stores, and on devices.

Choose

- Choose games wisely based on ESRB safety ratings and family acceptability.

Teach, mentor, and train

- Teach, mentor, and train your children on proper online conduct including cyberbullying training.

Teach

- Teach children to never disclose personally identifiable information (PII), to use avatars and ensure gamer tags never include PII.

Do

- Do your research, get involved, and if inclined, play the game, too.

Thank You

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