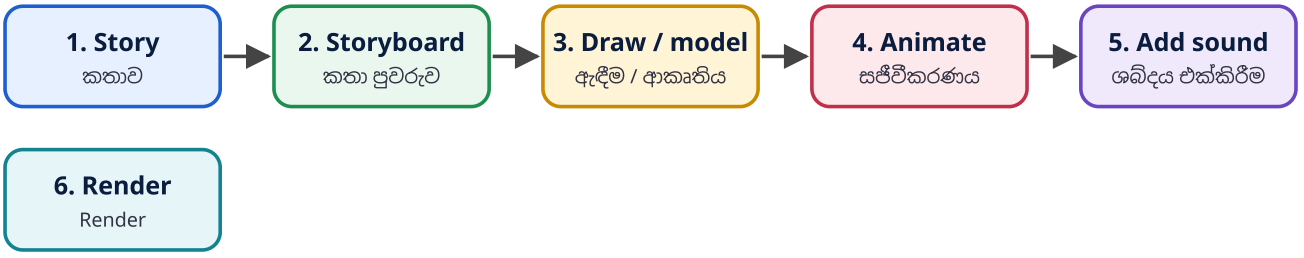
G.C.E. O/L Grade 11 ICT · Lesson 6

6.6 ICT in Entertainment: Movies, Cartoons, Sound, Games and Simulations

Syllabus 15.6. Most of the films, cartoons, songs and games we enjoy are made with computers. ICT is used for **movies and cartoons**, **digital sound editing**, **games** and **simulations**.

1. Movies and cartoons

Computers help to film, edit and add **special effects (visual effects)** to movies. Actors can stand in front of a **green screen**, and the computer puts a new background behind them. **Animation** software makes drawings or 3D models move to create **cartoons**.



Steps to make an animated cartoon.

Task	Software example
Video editing	DaVinci Resolve, OpenShot
2D and 3D animation	Blender, Synfig
Sound editing	Audacity
Game making	Unity, Scratch

2. Digital sound editing

Sound is recorded as digital data. With sound editing software you can **cut**, **join**, change the **volume**, remove **noise**, add **effects** such as echo, and **mix** many tracks (voice, music, drums) into one song.

> 💡 Think of tracks like layers of a cake: voice on top, music in the middle, drums at the bottom – the mixer joins them into one.

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3. Games

Computer and mobile **games** are programs that use graphics, sound and user input. Some games are just for fun; **educational games** help you learn. Online games let people play together over the Internet.

- Good: fun, quick thinking, teamwork, learning.
- Bad: addiction, less sleep, eye strain, spending money in games.
- Set a time limit and take breaks.

4. Simulations

A **simulation** is a computer model of a real thing or situation. People can practise safely, cheaply and many times. Examples: a **flight simulator** for pilots, a **driving simulator**, a **virtual science lab**, and simulations of floods or traffic.



ICT is used in many kinds of entertainment.

> NEW 2026 2026: **streaming** (YouTube, Netflix, Spotify) is the main way to watch and listen, **virtual reality (VR)** headsets make games and simulations feel real, and **AI** can create music, voices and pictures. Using AI to copy a real person's face or voice without permission (**deepfake**) is wrong and can be a crime.

Key Words

Special effects – Computer-made pictures added to a film.	**Green screen** – A green background that the computer replaces with another scene.
Animation – Making pictures appear to move by showing many frames quickly.	**Storyboard** – A set of sketches that plan each scene.
Rendering – The computer making the final pictures or video from a model.	**Sound editing** – Cutting, joining and improving recorded sound.

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Track – One layer of sound, such as voice or drums.

Mixing – Joining many sound tracks into one.

Simulation – A computer model of a real thing used to test or practise.

Flight simulator – A machine where pilots practise flying safely.

Virtual reality – A headset that makes you feel inside a computer world.

Deepfake – A fake video or voice of a real person made by AI.

Sample Q&A

1. How are computers used in movies?

> **Answer:** For editing, special effects and green screen backgrounds.

2. What is animation?

> **Answer:** Showing many pictures (frames) quickly so they seem to move.

3. Name three things you can do with sound editing software.

> **Answer:** Cut and join sound, remove noise and mix tracks.

4. Give one good and one bad effect of games.

> **Answer:** Good: quick thinking or learning. Bad: addiction or eye strain.

5. What is a simulation? Give an example.

> **Answer:** A computer model of a real situation, for example a flight simulator.

6. Why is a deepfake wrong?

> **Answer:** It copies a real person without permission and can trick or harm people.

MCQ

1. Actors stand in front of a green screen so that the computer can

A. measure heart rate
B. record sound
C. print the film
D. put in a new background

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2. Making a cartoon by showing many frames quickly is

A. telemedicine
B. animation
C. CAM
D. phishing

3. Which software is mainly for sound editing?

A. AutoCAD
B. Moodle
C. Audacity
D. Excel

4. Joining voice, music and drum tracks into one song is

A. mixing
B. scanning
C. backing up
D. rendering

5. Pilots practise landing safely using a

A. LMS forum
B. flight simulator
C. CNC machine
D. UPS

6. One main advantage of simulations is that people can

A. never make mistakes
B. earn shares
C. practise safely many times
D. avoid all computers

7. A bad effect of playing games for many hours is

A. eye strain and less sleep
B. more exercise
C. faster Internet
D. better posture

8. An AI video that shows a real person saying things they never said is a

A. storyboard
B. deepfake
C. simulation
D. cobot

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9. Which term means: “Computer-made pictures added to a film”?

A. Special effects
B. Storyboard
C. Sound editing
D. Simulation

10. Which term means: “A green background that the computer replaces with another scene”?

A. Flight simulator
B. Track
C. Green screen
D. Rendering

11. Which term means: “Making pictures appear to move by showing many frames quickly”?

A. Mixing
B. Virtual reality
C. Sound editing
D. Animation

12. Which term means: “A set of sketches that plan each scene”?

A. Deepfake
B. Track
C. Storyboard
D. Simulation

13. Which term means: “The computer making the final pictures or video from a model”?

A. Special effects
B. Rendering
C. Flight simulator
D. Mixing

14. Which term means: “Cutting, joining and improving recorded sound”?

A. Green screen
B. Virtual reality
C. Simulation
D. Sound editing

15. Which term means: “One layer of sound, such as voice or drums”?

A. Track
B. Animation
C. Flight simulator
D. Deepfake

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Structured Questions

1. Explain two ways computers are used to make movies. *(2 marks)*

> Editing scenes together (1); special effects or green screen backgrounds (1)

2. List the steps to make an animated cartoon. *(3 marks)*

> Story and storyboard (1); draw or model and animate (1); add sound and render (1)

3. Give three tasks done in digital sound editing. *(3 marks)*

> Cut and join (1); remove noise or change volume (1); mix tracks or add effects (1)

4. What is a simulation? Give two examples and one advantage. *(4 marks)*

> A computer model of a real situation (1); flight simulator; virtual science lab (1); safe and cheap practice (1)

5. Give two good effects and two bad effects of computer games. *(4 marks)*

> Fun or learning; quick thinking or teamwork; addiction or less sleep; eye strain or wasted money (1 each)

Summary

- Movies use editing, special effects and green screens.
- Animation = many frames shown quickly.
- Cartoon steps: story, storyboard, draw, animate, sound, render.
- Sound editing: cut, join, remove noise, mix tracks.
- Games: fun and learning, but limit your time.
- Simulation = computer model for safe practice.
- Examples: flight simulator, driving simulator, virtual lab.
- 2026: streaming, VR and AI media; deepfakes are wrong.

MCQ answer key – 6.6

1. **D** – Green is replaced by another scene.
2. **B** – Frames + speed = animation.
3. **C** – Audacity edits audio.
4. **A** – Mixing joins tracks.
5. **B** – A simulation of flying.
6. **C** – Mistakes in a simulation hurt no one.
7. **A** – Take breaks and set limits.
8. **B** – Deepfakes are fake and harmful.
9. **A** – Special effects – Computer-made pictures added to a film.

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10. **C** – Green screen – A green background that the computer replaces with another scene.
11. **D** – Animation – Making pictures appear to move by showing many frames quickly.
12. **C** – Storyboard – A set of sketches that plan each scene.
13. **B** – Rendering – The computer making the final pictures or video from a model.
14. **D** – Sound editing – Cutting, joining and improving recorded sound.
15. **A** – Track – One layer of sound, such as voice or drums.

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