

HOLIDAY HOMEWORK FILE

Technology, AI & Smart Living

Class & Section: _____

Name: _____

Roll No.: _____

CLASS 8 (2026-27)

Holiday Homework | Technology & AI

TOPIC 1: AI Around Us — Explore & Investigate

AI is Everywhere — Let's Discover It!

AI is used in hospitals to detect diseases, in farms to monitor crops, in schools to personalise learning, and in transport for navigation. You may not see it, but it is working behind the scenes in almost every industry.

Fields where AI is used: Healthcare, Agriculture, Education, Transport, Entertainment, Banking, Weather Forecasting.

Activity 1: AI DETECTIVE — TRUE or FALSE (Critical Thinking)

Read each statement. Decide if it is TRUE or FALSE. Write your answer in the last column.

If it is FALSE, also write the correct statement at the bottom of the table.

No.	Statement	True / False
1.	AI can only be found in robots and computers.	
2.	When a doctor uses an app to read an X-ray, AI can help find problems in the image.	
3.	AI learns by receiving thousands of examples of data.	
4.	A regular ceiling fan uses AI to decide when to switch on.	
5.	Spam filters in email use AI to block unwanted messages.	
6.	AI can compose music, write stories, and create paintings.	
7.	Once an AI is trained, it can never learn anything new.	
8.	Self-driving cars use sensors and AI to navigate roads safely.	

Write corrections for any FALSE statements here:

Activity 2: FIELD INVESTIGATION — AI in My Town (Research Activity)

Go outside or search with a family member. Find 3 REAL places or services in your city/town that use AI or smart technology.

Example: ATM machine (uses face/card recognition), Hospital (online booking system), Metro / Bus app (uses GPS + AI)

Fill the table below with your findings.

No.	Place / Service	What Smart / AI Feature does it use?	How does it help people?
1.			
2.			
3.			
4.			

TOPIC 2: Smart City — Think Like a City Planner!

Be a Smart City Planner!

City planners decide how a city is built and managed. Today they use technology and AI to build SMART cities. A smart city collects data from roads, hospitals, schools, and water supply — and uses that data to make better decisions every day.

In India, the Smart Cities Mission started in 2015. Cities like Surat, Pune, Bhopal, Jaipur, and Indore are being developed with smart infrastructure.

Activity 1: SMART CITY WORD QUIZ (Vocabulary Builder)

Match each Smart City term with its correct meaning. Write the letter of the correct meaning in the Answer column.

No.	Smart City Term	Meaning (Shuffled)	Answer
1.	Sensor	A) Device that detects light, heat, movement, or sound	_____
2.	IoT (Internet of Things)	B) A machine that flies without a pilot, used for surveys	_____
3.	Data	C) Devices connected to each other via the internet	_____
4.	CCTV	D) Information collected and stored by computers	_____
5.	Solar Panel	E) A panel that converts sunlight into electricity	_____
6.	Wi-Fi Hotspot	F) Camera used for security and monitoring	_____
7.	Drone	H) A device that measures electricity or water use digitally	_____

Activity 2: SMART CITY COMIC STRIP (Fun Creative Activity)

A Smart City has many cool features. Your job is to make a 4-panel COMIC STRIP showing a day in a Smart City!

Each panel shows ONE smart feature in action. Draw a simple picture and write 1–2 lines of dialogue or description.

Ideas to use: Smart traffic light, Drone delivery, Solar street light, Smart dustbin, Wi-Fi park, Online bill payment, CCTV camera, Electric bus.

Tip: Stick figures and simple shapes are totally fine — focus on the story, not perfect drawing!

Panel 1

Smart Feature: _____

[Draw here]

Dialogue / Description:

Panel 2

Smart Feature: _____

[Draw here]

Dialogue / Description:

Panel 3

Smart Feature: _____

[Draw here]

Dialogue / Description:

Panel 4

Smart Feature: _____

[Draw here]

Dialogue / Description:

Give your Comic Strip a title!

My Comic Strip is called:
