

2026 Integrated Project Item Development Subject Changes

GEC MASTER TRAINERS

April 2026

Technology



2026 Subject changes

Brief summary of changes in Technology (2025 → 2026):

- The scenario has changed significantly from a basic door alarm / assistance device (**2025**) to a more real-world community-based safety system (**2026**) focusing on intrusion detection and fire detection.
- Introduction of sensors (LDR, thermistor, motion detection concepts) in **2026**, replacing the simpler circuit design of **2025**.
- Greater emphasis on automation and smart systems, where the circuit must respond to environmental changes (light/temperature).

2026 Subject changes - Continue

- The **design requirements are more structured and realistic**, including:
 - Specific voltage limits ($\leq 9V$)
 - Inclusion of a **master switch (SPST)**
 - Clear requirement for **input → process → output systems**
- The **design process has been scaffolded more clearly** in 2026 (design brief, constraints, specifications separated and expanded).



Continue.....

- Increased focus on **problem-solving in real-life community contexts** (crime, fire safety) rather than individual scenarios.
- More emphasis on **evaluation, improvement, and engineering thinking**, not just building a model.
- The **Technology** content is more integrated with **systems thinking and coding/robotics concepts** (sensors + control).

2026 Subject changes

Worksheet	Changes (Yes/No)	Summary of Changes/if not motivate
Worksheet 1 (Tech component identification)	Yes	Expanded to include real-world context (community safety) and integration with scenarios. More structured questions linking Technology concepts to application.
Worksheet 3 (Investigation Skills)	Yes	More advanced circuit analysis and component identification, including sensors and transistor use, compared to basic component identification in 2025
Worksheet 5 (Design Skills)	Yes	Re-structured and expanded: clearer separation of design brief, constraints, specifications, and stronger emphasis on how constraints influence design decisions

2026 Subject changes

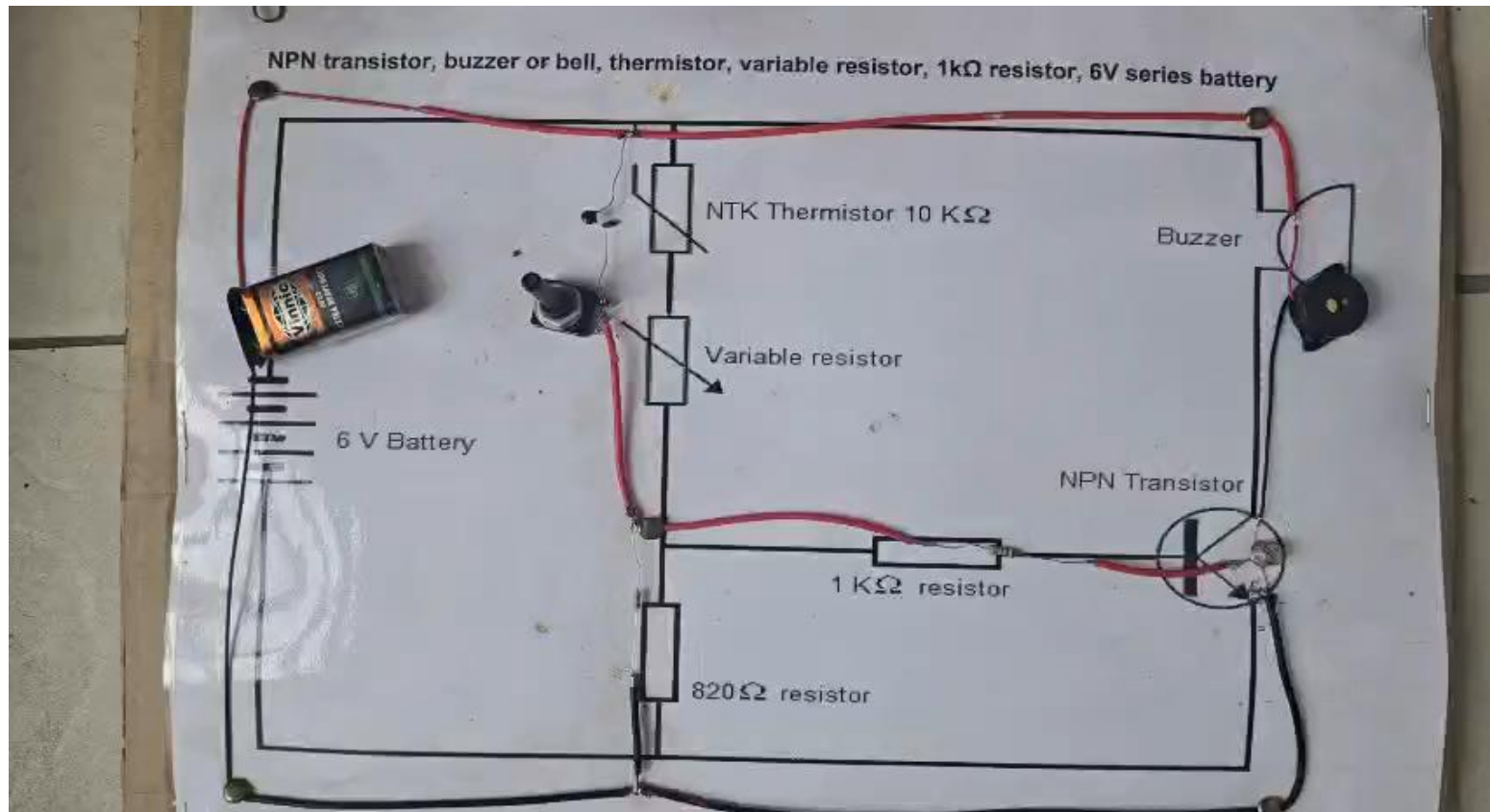
Worksheet	Changes (Yes/No)	Summary of Changes/if not motivate
Worksheet 6 / 7 (Design evaluation & planning)	Yes	More structured evaluation of designs, including decision-making, challenges, and improvements. Stronger focus on engineering thinking and collaboration
Worksheet 8 (Drawing / Exploded view)	Yes	Increased emphasis on technical drawing skills, especially exploded views, which were less explicit in 2025
Worksheet 9 (Investigation & Data – Tech linked)	Yes	Greater integration of Technology with practical investigation, linking circuit building with data collection and analysis.

2026 Subject changes

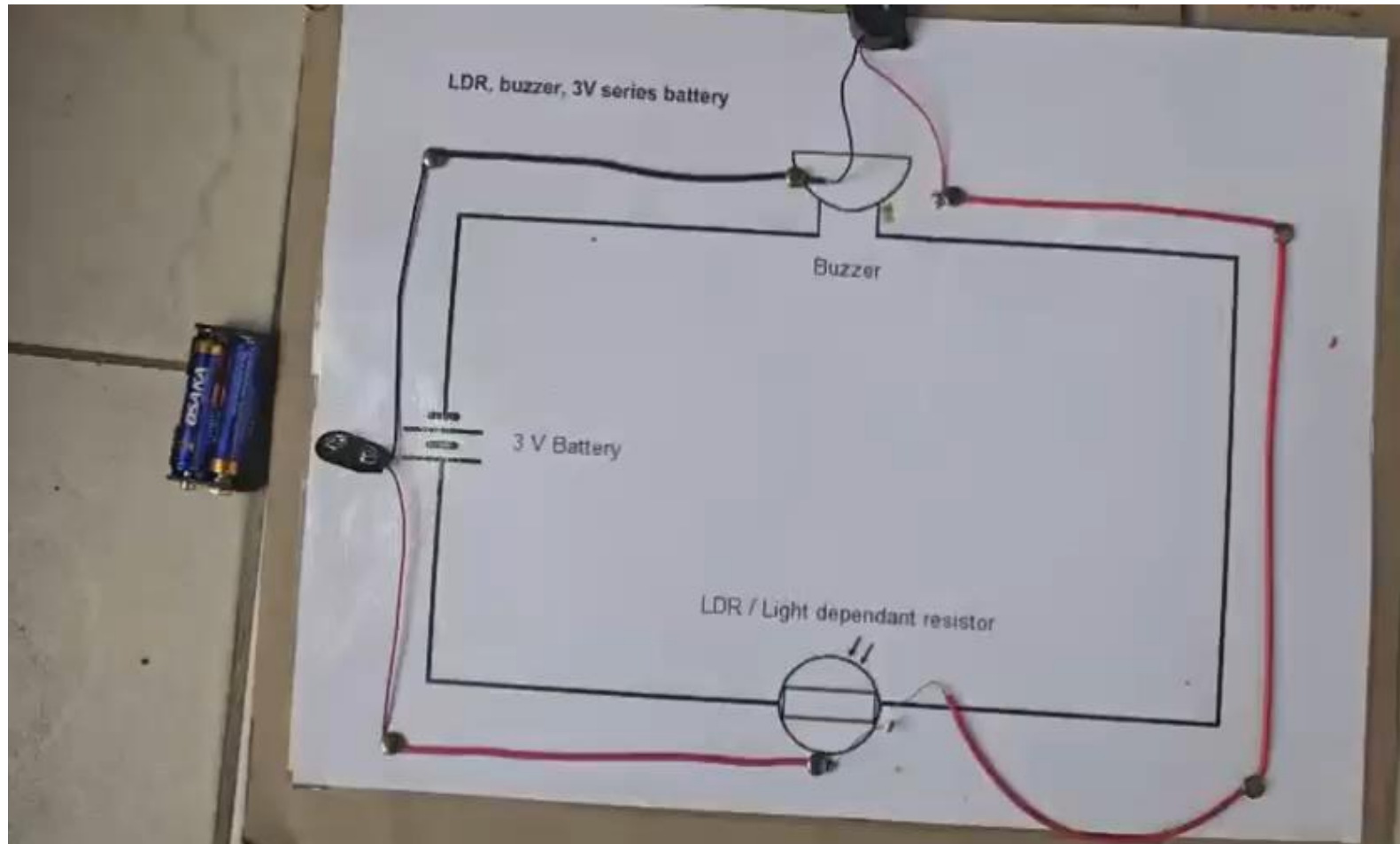
Worksheet	Changes (Yes/No)	Summary of Changes/if not motivate
Worksheet 10 (Make – Build Prototype)	Yes	Requirements are more strict and realistic, including functionality, safety, and proper system integration (input–process–output).
Worksheets 11–13 (Evaluation & Reflection)	No (Minor changes)	Structure remains similar, but improved alignment with reflection, feedback, and iterative design process.



Fire Alarm Circuit



Light Sensitive Alarm



Every child is a National Asset

Thank you!

www.education.gov.za

facebook: DBE SA

twitter: @DBE_SA

callcentre@dbe.gov.za

callcentre: 0800 202 933