Why Do Cell Phone Batteries Overheat?

Video Presentation

Directions for Video Presentation

1. **Gather Information:** Review the materials and notes you have collected about cell phone batteries and electricity generation.
2. **Plan Your Presentation:** Create an outline that includes the following points:
    - How a cell phone can overheat and potentially combust.
    - Explanation of porous silicon as a solution for battery overheating.
    - Industry solutions related to using porous silicon in batteries.
3. **Create Content:**
    - Use your own words to explain the overheating and combustion of cell phones.
    - Highlight the benefits and challenges of using porous silicon in batteries.
    - Suggest one way to address overheating issues for cell phone users.
4. **Prepare the Video:**
    - Aim for a total presentation length of 7 minutes.
    - Ensure your video is clear, engaging, and informative.
5. **Practice Delivery:** Rehearse your presentation to ensure smooth delivery.
6. **Record and Submit:** Record your video presentation and submit it by the deadline.

Evaluation Rubric for Video Presentation

Criteria	3 - Exceeds Expectations	2 - Meets Expectations	1 - Below Expectations
Electricity Generation & Usage	Clear and detailed explanation of how electricity is generated and used; insightful discussions.	Basic explanation of electricity generation and usage; adequate details provided.	Vague or unclear explanation of the topic; minimal details given.
Cell Phone Overheating Explanation	Clear and detailed explanation of how a cell phone can overheat and potentially combust; insightful discussion.	Adequate explanation of overheating; some mention of combustion.	Vague or unclear explanation of overheating; minimal discussion of combustion.
Porous Silicon as a Solution	Comprehensive exploration of using porous silicon in batteries; highlights benefits and challenges with depth.	Basic mention of porous silicon; some acknowledgment of benefits and challenges.	Little to no reference to porous silicon; lacks depth and clarity.
Organization & Clarity	Well-structured presentation with a clear outline; ideas presented logically and coherently; easy to follow.	Organized presentation with a basic outline; mostly logical flow of ideas; mostly easy to follow.	Poorly organized presentation; unclear outline; difficult to follow.
Engagement & Delivery	Highly engaging delivery; confident presentation style; excellent pacing and timing; captures audience attention throughout.	Generally engaging delivery; adequate presentation style; appropriate pacing and timing; maintains audience interest.	Lacks engagement; unsure presentation style; poor pacing and timing; fails to maintain audience interest.
Visuals & Quality	High-quality visuals that enhance the presentation; clear audio and video quality; professional appearance.	Adequate visuals that support the presentation; acceptable audio and video quality; generally professional appearance.	Poor quality visuals; unclear audio and video; unprofessional appearance.
Solution Suggestion	Thoughtful and practical suggestion to address overheating issues; clearly explained and well-supported.	Basic suggestion offered to address overheating issues; explanation is somewhat clear.	Little to no suggestion provided; unclear or unsupported explanation.