Practice Question Set For GCSE

Subject: Physics



Merit Minds
www.merit-minds.com
Exam Preparation and Free Resources

Name of the Student:_ Max. Marks: 18 Marks Time: 18 Minutes Mark Schemes Q1. (a) 80 (°C) 1 (b) C 1 temperature after 10 minutes was lowest or final temperature was lowest reason only scores if material C is chosen allow temperature after 10 minutes was lower 1 (c) lower total temperature rise (for all materials) allow lower final temperature (for all materials) 1 (because) the rate of temperature increase would be lower allow lower gradient lines 1 (d) higher resolution 1 reduced risk of misreading instrument 1 (e) polyurethane foam no marks if polyurethane foam not chosen 1 (because it has the) lowest rate of energy transfer 1 [9]

Q2.

(a)

Level 2: Relevant reasons are identified, given in detail and logically linked to form a clear account.	3-4
Level 1: Relevant reasons are identified, and there are attempted at logically linking. The resulting account is not fully clear.	pts 1-2

	l .
No relevant content	0
Indicative content	
nuclear	
no carbon dioxide released (when generating electricity) or doesn't release greenhouse gases	
reliable	
high energy density	
power stations already built	
other power stations being built	
wind	
 no carbon dioxide released (when generating electricity) or doesn't release greenhouse gases 	
renewable energy resource	
no fuel cost	
wind power is unreliable (so) will be unable to meet demand when wind speed is low or when there is no wind or unable to maintain base load at all times	
electricity generation will need to increase (to meet higher demand	d)
(using) nuclear power or wind power or other renewables	

(b)

(c)

so that carbon dioxide emissions don't increase

reference to Paris Climate agreement