

4.2 Information sheets – Paper 1 (Physics)

DATA FOR PHYSICAL SCIENCES: GRADE 12
PAPER 1 (PHYSICS)

TABLE 1: PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Acceleration due to gravity	g	$9,8 \text{ m}\cdot\text{s}^{-2}$
Universal gravitational constant	G	$6,67 \times 10^{-11} \text{ N}\cdot\text{m}^2\cdot\text{kg}^{-2}$
Speed of light in a vacuum	c	$3,0 \times 10^8 \text{ m}\cdot\text{s}^{-1}$
Planck's constant	h	$6,63 \times 10^{-34} \text{ J}\cdot\text{s}$
Coulomb's constant	k	$9,0 \times 10^9 \text{ N}\cdot\text{m}^2\cdot\text{C}^{-2}$
Charge on electron	e	$-1,6 \times 10^{-19} \text{ C}$
Electron mass	m_e	$9,11 \times 10^{-31} \text{ kg}$
Mass of the Earth	M	$5,98 \times 10^{24} \text{ kg}$
Radius of the Earth	R_E	$6,38 \times 10^6 \text{ m}$

TABLE 2: FORMULAE

MOTION

$v_f = v_i + a\Delta t$	$\Delta x = v_i\Delta t + \frac{1}{2}a\Delta t^2$ OR $\Delta y = v_i\Delta t + \frac{1}{2}a\Delta t^2$
$v_f^2 = v_i^2 + 2a\Delta x$ OR $v_f^2 = v_i^2 + 2a\Delta y$	$\Delta x = \left(\frac{v_i + v_f}{2}\right)\Delta t$ OR $\Delta y = \left(\frac{v_i + v_f}{2}\right)\Delta t$

FORCE

$F_{\text{net}} = ma$	$p = mv$
$F_{\text{fr}}^{\text{max}} = \mu_k N$	$F_{\text{fr}} = \mu_k N$
$F_{\text{net}}\Delta t = \Delta p$ $\Delta p = mv_f - mv_i$	$w = mg$
$F = \frac{Gm_1m_2}{d^2}$ OR $F = \frac{Gm_1m_2}{r^2}$	$g = \frac{GM}{d^2}$ OR $g = \frac{GM}{r^2}$

WORK, ENERGY AND POWER

$W = F\Delta x \cos\theta$	$U = mgh$ OR $E_p = mgh$
$K = \frac{1}{2}mv^2$ OR $E_k = \frac{1}{2}mv^2$	$W_{\text{net}} = \Delta K$ OR $W_{\text{net}} = \Delta E_k$ $\Delta K = K_f - K_i$ OR $\Delta E_k = E_{kf} - E_{ki}$
$W_{\text{net}} = \Delta K + \Delta U$ OR $W_{\text{net}} = \Delta E_k + \Delta E_p$	$P = \frac{W}{\Delta t}$
$P_{\text{net}} = Fv_{\text{net}}$	

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recommend starting with chicken breasts or thighs 5 from 1 vote

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web i have to admit i make this marinade in batches it is fresh and fragrant at the same time every time grill i seem to acquire new friends jerk is originated in jamaica but most other caribbean islands have their own marinades using the spices and herbs in the quantities preferable to their specific taste

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web dec 19 2021 ingredients 1 medium onion finely chopped 1 2 cup scallions finely chopped 1 hot pepper finely chopped 3 tablespoons soy sauce 1 tablespoon oil 1 tablespoon cider vinegar or white vinegar 2 teaspoons fresh thyme leaves 2

teaspoons granulated sugar 1 teaspoon salt kosher salt or sea salt is

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web step 1 make the jerk seasoning place the chiles scallions garlic ginger cilantro thyme sugar salt allspice cinnamon pepper and salt in food processor and grind to a coarse paste work in the oil rum and soy sauce to obtain a thick but spreadable paste

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web recipe tips place the food in a glass baking dish and spread the jerk seasoning over it turning to ensure an even coating marinate large pieces of meat overnight medium size pieces for 4 to 6 hours and small pieces for 1 to 2 hours covered in the refrigerator barbecue or indirect grill the meat using moderate heat and plenty of wood smoke

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a classic jamaican jerk marinade caribbeanpot com - Oct 06 2023

web jan 14 2011 1 3 cup soy sauce 2 tablespoon vegetable oil 1 4 cup vinegar 1 onion 1 2 cup orange juice 2 cloves garlic 1 teaspoon grated ginger notes if you re using dried thyme use about 1 2 table spoon this makes about 3 cups of marinade and it can be stored in the fridge for about 1 month

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web in the process it s lost a lot of its fire spice and salt here s how they make it in the birthplace of jerk a town called boston beach on the north coast of jamaica count yourself lucky to have a blender in boston beach they grind the seasonings in a hand cranked spice mill

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web expandierbares polystyrol eps erhält während der polymerisation zu festen kügelchen gaseinschlüsse die kügelchen werden in oktubins zum verarbeiter transportiert werden die kügelchen dort unter wasserdampf etwas über 100 c erwärmt expandiert das gas und der thermoplastische kunststoff bläht sich auf

expanded polystyrene eps plastics europe - Nov 06 2022

web expanded polystyrene or eps is widely used commodity polymer it has been a material of choice for more than 50 years because of its versatility performance and cost effectiveness it is widely used in many everyday applications such as fish boxes bicycle helmets and insulation material

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web expandable polystyrene eps is a rigid and tough foam eps is often used for food packaging building insulation and packing material either as solid blocks formed to accommodate the item being protected or as loose fill pellets cushioning fragile items inside boxes time tested first class coperion and coperion k tron technology is

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web marktforschung zu expandierbarem polystyrol eps eps wird überwiegend von der bauindustrie zur isolation von wärme kälte oder auch schall eingesetzt ceresana hat erneut den weltmarkt für diesen leichten festen

