

**NATIONAL  
 SENIOR CERTIFICATE**

**GRADE 12**

**SEPTEMBER 2021**

**PHYSICAL SCIENCES P1**

**MARKS:** 150

**TIME:** 3 hours

The question paper consists of 15 pages, including 3 data sheets

**QUESTION 10: POTENTIAL ENERGIES**

10. The kinetic energy of a car moving at velocity  $v$  is  $K$ . The velocity of the car changes to  $3v$ . What is the new kinetic energy of the car?

- A.  $18K$
- B.  $10K$
- C.  $2K$
- D.  $4K$

(2)

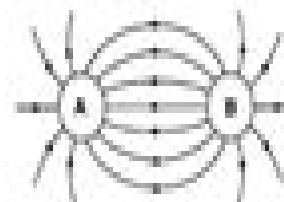
- 10.1 A sound source approaches a stationary observer at constant velocity.

Which ONE of the following describes how the observed frequency and wavelength differ from that of the sound source?

	Observed wavelength	Observed frequency
A	Greater than	Greater than
B	Less than	Less than
C	Less than	Greater than
D	Greater than	Less than

(2)

- 10.2 The electric field pattern between two charged spheres, A and B, is shown below.



Which ONE of the following statements regarding the charge on spheres A and B is CORRECT?

- A. Sphere A is negatively charged, and sphere B is positively charged.
- B. Sphere A is positively charged, and sphere B is negatively charged.
- C. Spheres A and B are both positively charged.
- D. Spheres A and B are both negatively charged.

(2)

# Common Papers Physical Science Gr 12 September 2013

## Memo

**Daniel F McAuley**



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web oct 13 2023 ingredients 1 1 2 cups half and half cream 3 large egg yolks 3 tablespoons brown sugar 2 teaspoons vanilla extract 3 4 teaspoon ground cinnamon 1 2 teaspoon salt 1 4 teaspoon ground nutmeg 8 slices day old brioche bread 1 inch thick optional toppings butter maple syrup fresh berries whipped cream and confectioners sugar directions

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web sep 26 2023 method make the egg mixture in a medium bowl whisk together the eggs milk and cinnamon stir in the orange zest and or soak the bread slices in egg mixture place each slice of bread into the milk egg mixture allowing the bread to soak in fry the french toast melt some butter in a large

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web aug 21 2023 ingredients  $\frac{2}{3}$  cup milk 2 large eggs 1 teaspoon vanilla extract optional  $\frac{1}{4}$  teaspoon ground cinnamon optional salt to taste 6 thick slices bread 1 tablespoon unsalted butter or more as needed

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web ingredients yield 4 servings 2 whole eggs 2 egg yolks 2 cups whole milk or  $1\frac{3}{4}$  cups milk plus 2 to 4 tablespoons cream 1 teaspoon vanilla extract optional pinch of salt unsalted butter for

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web feb 23 2019 instructions whisk together egg mixture in a bowl vigorous whisk avoid cinnamon floating on top melt 15g 1 tbsp butter in a non stick skillet over medium heat dunk a piece of bread quickly into the egg mixture coating both sides place in pan repeat with more slices to fill cook for 2  $\frac{1}{2}$

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web instructions 1 to make this easy french toast recipe whisk egg vanilla and cinnamon in shallow dish stir in milk 2 dip bread slices in egg mixture turning to coat evenly on both sides 3 cook bread slices on lightly greased nonstick griddle or skillet on medium heat until cooked through and