

QUESTION 1

- 1.1. C ✓✓
- 1.2. D ✓✓
- 1.3. B ✓✓
- 1.4. A ✓✓
- 1.5. A ✓✓

[10]

QUESTION 2

- 2.1.
- 2.1.1. A pure substance is a substance that cannot be separated into simpler components by physical methods. ✓✓
- 2.1.2.1 Element ✓
- 2.1.2.2 Consists of only one type of atom. ✓
- 2.1.2.3 It is a combination of different metals (copper and zinc). ✓
- 2.2. Pots and pans are made of metal, because metal is a good conductor which allows heat to be transferred so that food can cook. ✓ The handles are insulators so that you do not burn your hands when you pick up a hot pot. ✓
- 2.3.1. (a) Temperature ✓
(b) Time ✓
- 2.3.2. Boiling point is the temperature of a liquid at which its vapour pressure equals to the external (atmospheric) pressure ✓✓
- 2.3.3. The temperature remains constant because the energy is absorbed by the molecules. ✓
The strength of the intermolecular forces between the molecules decreases. ✓
The particles move faster and spaces between the particles increases. ✓
The substance changes phase from liquid to gas ✓

[15]

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Jose Angel Pelaez,Jouni Rattya



Grade 1 June 2013 Physics P2 Memo:

Weighted Bergman Spaces Induced by Rapidly Increasing Weights Jose Angel Pelaez, Jouni Rattya, 2014-01-08 This monograph is devoted to the study of the weighted Bergman space $A_{p,\omega}$ of the unit disc $\mathbb{D}$ that is induced by a radial continuous weight ω satisfying $\lim_{r \rightarrow 1} \frac{1}{r} \int_r^1 \omega(s) ds = \omega(r)$. Every such $A_{p,\omega}$ lies between the Hardy space H_p and every classical weighted Bergman space $A_{p,\alpha}$. Even if it is well known that H_p is the limit of $A_{p,\alpha}$ as $\alpha \rightarrow 1$ in many respects it is shown that $A_{p,\omega}$ lies closer to H_p than any $A_{p,\alpha}$ and that several finer function theoretic properties of $A_{p,\alpha}$ do not carry over to $A_{p,\omega}$.

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