

NATURAL SCIENCES AND TECH GRADE 6

LOCKDOWN PROGRAMME WEEK 11

MEMORANDUM

REVISION

Topic 6: Mixtures

(25)

1. Which of the following are **not mixtures**?

- a. Raisins in a glass bowl
- b. Raisins and peanuts in a glass bowl
- c. Sand, cement and gravel
- d. Sand and gravel
- e. Sand and water
- f. Five rand coins and two rand coins
- g. Oil and water
- h. Salt and sugar
- i. 5 cent coins in a plastic bag

(2)

For each one you choose, give a reason for your answer.

(2)

a. Raisins in a glass bowl and 5 cent coins in a plastic bag

These are not mixtures because they only consist of one type of substance.

A mixture must consist of at least 2 substances

(4)

2. In which of these mixtures can you still see clearly all the separate substances?

- a. Raisins and peanuts in a glass bowl
- b. Sand, cement and gravel
- c. Sand and gravel
- d. Sand and water
- e. Five rand coins and two rand coins
- f. Oil and water
- g. Salt and sugar

- g. sand and salt (5)
- a. Raisins and peanuts in a glass bowl
- c. Sand and gravel
- d. Sand and water
- e. Five rand coins and two rand coins
- f. Oil and water (5)
3. In which of the mixtures listed in No. 2, would it be difficult to see the different substances in the mixture? (3)
- b. Sand, cement and gravel
- g. Salt and sugar
- g. sand and salt
4. Name 5 physical means by which mixture can be separated. (5)
- Sieving, filtering, hand sorting, settling and decanting.**
5. State the physical method you would use to separate each of the following mixtures.
- a. Raisins and peanuts in a glass bowl
- b. Sand, cement and gravel
- c. Sand and water
- d. Five rand coins and two rand coins
- e. Oil and water (5)
- a. Raisins and peanuts in a glass bowl...**handsorting**
- b. Sand, cement and gravel...**sieving**
- c. Sand and water...**settling and decanting, filtering**
- d. Five rand coins and two rand coins... **handsorting**
- e. Oil and water... **settling and decanting**
6. Draw a diagram to show your method you would use to separate the mixture in b, sand and gravel.
- Labels: sand, gravel, sieve. (3)

