

NATURAL SCIENCES AND TECHNOLOGY GRADE 6

WEEK 2

MEMORANDUM

TOPIC 6 MIXTURES

TASKS TO BE COMPLETED

1. Activity 1 ... Page 61

- 1. a. Peanuts are not a mixture.**
- b. Raisins are not a mixture.**
- c. Peanuts and raisins can be called a mixture.**
- 2. a. The milkshake is a liquid.**
- b. Strawberry powder (solid) or strawberry liquid and milk(liquid) and ice-cream.(solid)**
- c. No the flavour cannot be removed.**
- d. No the ice-cream cannot be eaten separately.**

2. Activity 2...Page 62

- 1. a. The ten cent coins remain the same.**
- b. The fifty cent coins remain the same.**
- c. Yes, the ten cent coins can be seen.**
- d. Yes, the fifty cent coins can be seen.**
- 2 . a. The peanuts remain the same.**
- b. The dried beans remain the same.**
- c. Yes, the peanuts can be seen.**
- d. Yes, the dried beans can be seen.**
- 3. a. The tea leaves remain the same.**
- b. The sugar remains the same.**
- c. Yes, tea leaves the can be seen.**
- d. Yes, sugar the can be seen.**
- 4. a. Yes, some can be selected.**
- b. No, they taste the same.**
- c. Yes, they still taste the same.**

5. a. Yes, sand is brown, salt is white.
- b. Salt is fine and sand is rough.
- c. Sand grains are larger than salt grains.
6. a. The salt remains the same.
- b. The sand remains the same.
- c. The particles are not easily visible, but the sand should be more visible.
- d. The particles are not easily visible, but the salt should be less visible.
- e. The particles will be more visible when a magnifying glass is used.

3. **Activity 3...Page 64**

6.

Observations when a solid is mixed with a liquid						
Solid substance	Liquid	What happens to the solid?	What happens to the liquid?	Can you see the solid?	Can you see the liquid?	Describe the mixture
sand	water	Sinks to the bottom	Settles on top of sand	yes	yes	Muddy water
Crushed chalk	water	Sinks to the bottom	Settles on top of chalk	yes	yes	Cloudy water
Curry powder	water	Sinks to the bottom	Settles on top of curry powder	yes	yes	Reddish water
Grated cheese	milk	A few to the bottom, but some near the top	Settles on top of cheese, some cheese on top	yes	yes	Milky, with cheese bits

7.

Summary of observations				
Observations	Glass 1	Glass 2	Glass 3	Glass 4
The solids settle at the bottom	✓	✓	✓	
The liquid looks like before				✓
The liquid changed	✓	✓	✓	

4. **Activity 4... Page 65.**

4. a. When cordial is mixed with water, the two liquids mix completely.

b. When oil and water are mixed, the oil settles at the top and water below.

This proves that oil and water do not mix.

5. **Topic revision...Page 68**

Science language activity

Column A	Column B
1. Mixture	b. two or more substances that are mixed together
2. Separate	e. to break up a mixture into the substances mixed
3. Sieving	d. to use a tool with holes that allows pieces of a certain size to pass
4. Filtering	c. to separate a liquid and a substance by pouring it through a material like filter paper or a mesh fabric
5. Settling	a. to allow a substance mixed with a liquid, to settle at the bottom

Revision activity

Write answers only, but answer in full sentences, provide headings for your answers for each question.

- a. curry powder and water; chalk and water.

b. sweets

c. curry powder
- Pupils drawing
- a. water and sand – filtering; settling

b. water and oil – settling; decanting

c. peanuts and beans – hand sorting

