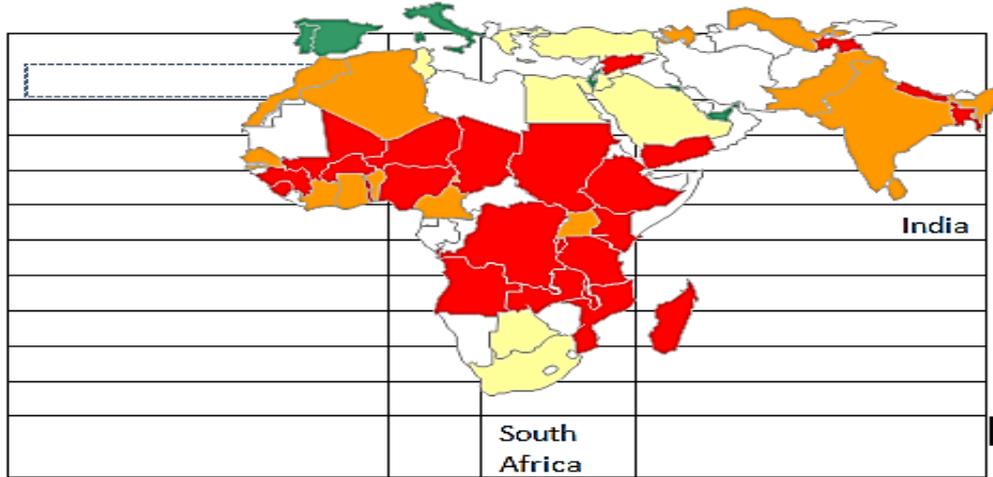


GRADE 9 GEOGRAPHY
SUSTAINABLE USE OF RESOURCES

1. Refer to the figure below showing the food security of African countries and then answer the questions.



A score of 100% means everyone has food security

	Score 58.5% to 74.1%
	Score 41.5% to 58.4%
	Score 25.1% to 41.4%

Complete the sentences below by choosing the correct word given in brackets. Write only the question number and choice of word.

- (a) Food (security/insecurity) is where people have access to nutritious, safe food at all times.
- (b) Food access in the above figure is higher in (South Africa/India).
- (c) (North/Equatorial) Africa has a low food security in the above figure.
- (d) Most people in (Africa/Europe) cannot access food due to economic reasons.
- (e) (Less/More) economically developed countries have higher food insecurity levels.

(5 x 1) (5)

2. Refer to the figure showing the current crops under G.M.O.

GMO Foods

For more information go to olmag.co/gmo-foods

Tomato

Tomatoes have been genetically modified, but they are not being grown commercially at this time

Rice

GMO rice has been approved but is not yet being used commercially

Sweet Corn

More than 70 percent of corn grown in the United States has been genetically engineered

Summer Squash

Farmers don't like GMO squash but some experts say GM squash have blended with wild squash

Canola Oil

87% of canola grown commercially, and 80% of wild canola is GMO

Yeast

GMO yeast for wine has been approved

Alfalfa

GMO alfalfa is contaminating non GMO alfalfa crops at a rapid rate

Salmon

GMO salmon has not been approved by the FDA, but it will be very soon

Wheat

Unapproved GMO has contaminated wheat fields, and we don't yet know the extent of it

Sugar Beets

90% of Sugar Beets (used to make 50% of our sugar) are GMO

Soy

More than 83% of soybeans the United States produces are genetically modified

Peas

Peas have been genetically modified but are not approved or available

Cotton

At least half of cotton grown in the world is GMO

Hawaiian Papaya

Most Hawaiian papaya is GMO, even many organic crops are contaminated

organic lifestyle
MAGAZINE

For each of the following statement say whether they are TRUE or FALSE. Write down only the question number and your choice of answer.

- (a) G.M.O. refers to genetically modified organisms.
- (b) G.M.O. is an unscientific method to produce more crops.
- (c) The biggest G.M.O. crop in South Africa that forms a staple diet for most South Africans is maize.
- (d) G.M.O. crops are unhealthy.
- (e) G.M.O. crops cannot resist insects and pests.

(5 x 1) (5)

3. Refer to the photograph below showing a farm for sale in the Eastern Cape.



- (a) Name ONE factor seen in the above photograph that makes farming on this farm profitable. (1 x 2) (2)
- (b) Explain what would happen to the natural environment in the above photograph should a farmer decide to use machines and science to farm this land. (1 x 3) (3)
- (c) The farmer has decided to use sustainable farming methods. How does this benefit the environment? (2 x 1) (2)
- (d) In a short paragraph of no more than 5 lines discuss any TWO sustainable farming methods that can be used by this farmer. (2 x 2) (4)
- (e) List TWO renewable resources seen in the above photograph. (2 x 1) (2)
- (f) Explain why the resources your listed in your answer to question 3.3 (e) above are natural resources. (1 x 3) (3)
- (g) In so much as the farmer has adopted sustainable farming methods, consumers too can ensure that farming in South Africa is sustainable. List three ways in which South African consumers can contribute to sustainable farming. (3 x 1) (3)