

Grade 7 Natural Science Worksheet

Assessment Task: Botony: flowers

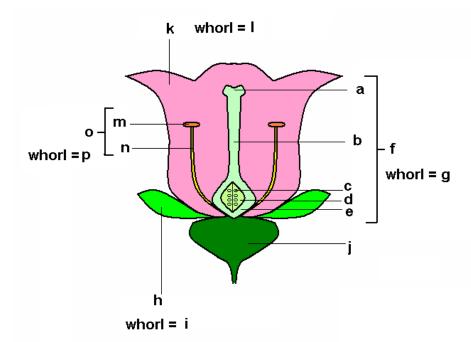
The flower

The flowering plants have evolved a specialised organ that brings about sexual reproduction. This specialised organ is the **flower**.

Part One: A diagram of the flower

Write the letters a – p down the margin of your page.

Provide a key for the diagram of the flower. Answers can be found in the box alongside the diagram. [16 marks]



stamen sepal receptacle stigma ovary petal anther calyx locule style corolla filament ovule pistil androecium gynoecium

The different parts of the flower

Part Two: Structure and function of the flower

Produce a table which summarises the structure and function of the different whorls of the flower.

[10 marks]



Grade 7 Natural Science Worksheet

Part Three: Some 'vegetables' are actually fruits

Many of the vegetables you eat are actually fruits. If it has seeds (or "pips") in it – it is a fruit. Decide which of the following are fruits. Those that are not fruits, say from which part of the plant they are derived.

Tomato, grape, cucumber, cabbage, strawberry, potato, carrot, pumpkin, pea, cauliflower, brussel sprout, bean, lettuce, peach, watermelon, onion, squash, marrow.

[18 marks]



Grade 7 Natural Science Worksheet

Suggested Solutions

Question	Possible	Solution	
number	marks		
1	16	a stigma	
		b style	
		c ovule	
		d locule	
		e ovary	
		f pistil	
		g gynoecium	
		h sepal	
		i calyx	
		j receptacle	
		k petal	
		I corolla	
		m anther	
		n filament	
		o stamen	
		p androecium	
2	10	Structure	Function
		Receptacle	Support ✓✓
		Calyx (sepals)	Protection of bud and support of flower ✓✓
		Corolla (petals)	Attract pollinators ✓✓
		Androecium (stamens)	Produce pollen (male gamete) ✓ ✓
		Gynoecium (pistil)	Produce ovules (female gametes) and bring
			about fertilisation ✓ ✓
3	18	Fruits: Tomato, grape, cucumber, strawberry, pumpkin, pea, bean, peach, watermelon, squash, marrow. ✓ one mark each = 11	
		Cabbage – leaves ✓	
		Potato – stem ✓	
		Carrot – root ✓	
		Cauliflower – bud√	
		Brussel sprout − bud ✓	
		Lettuce − leaves ✓	
		Onion – stem ✓	