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**01.1 Organ**

**01.2** Palisade mesophyll → Contains the most chloroplasts. Spongy mesophyll → Contains many air spaces.

**01.3 Transpiration**

**01.4 Lignin**

**01.5** To let light in. For photosynthesis.

**01.6** stomata, guard cells

**01.7** Vacuole

**01.8** Active transport

**01.9** Mitochondria

**02.1** It's a barrier.

**02.2**  $63/210 = 3/10$

**02.3** pH1 = 187. pH5 = 31. Difference = 156.

**02.4** It's the middle number between 23 and 63.

**03.1** Platelets → Help clot the blood. White blood cells → Produce antibodies.

**03.2** 1968

**03.3** It went up, stayed flat, then went down.

**03.4** It went down.

**03.5** Parents were worried their children would get condition X.

**03.6** Have the research peer reviewed.

**03.7** He was biased.

**04.1**

Starch test: use iodine.

Sugar test: use Benedicts.

The colour changes if it's there.

**04.2** amylase, sugar

**04.3** The type of bread

**04.4** White bread was fastest. Wholemeal was slowest.

**04.5** Did it again. And found the average.

**04.6** 58

**04.7** Each person's sense of taste is different.

**05.1** Ionising radiation, Viruses. (Ticks both)

**05.2** Mitosis

**05.3** grow, replicate

**05.4** 40%

**05.5** Chromosomes are pulled to each end of the cell.

**05.6** cell membrane

**05.7** 62.5 um

**05.8** cells, plants

**05.9** placebo

**06.1** same size potato. same solution.

**06.2** dry them.

**06.3** a scale

**06.4** 0.1 g

**06.5** D

**06.6**  $1.1 / 6.0 \times 100 = 18.3\%$

**06.7** Line graph

**06.8** water, osmosis, permeable

**06.9** 0.2

**07.1** Arteries

**07.2** It moves blood around. To carry oxygen.

**07.3** It gives them air.

**07.4** Statins

**07.5** It opens the artery. To let blood through.

**07.6** Smoking is risky. H is the most risky.

**07.7** (Draws graph with correct bars but no axis labels).

**07.8** Bad diet.

**08.1** Nucleus

**08.2** A, D and E

**08.3**

They can't digest food. The enzymes don't work.

They can't gain mass. They don't get energy from food.

**08.4** 1. big area. 2. thin walls. 3. good blood flow.

**08.5** You get tired. You can't do as much.

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