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01.1 Organ

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

01.3 Respiration

01.4 Lignin

01.5 To let light get through for photosynthesis.

01.6 stomata, guard cells

01.7 Vacuole

01.8 Active transport

01.9 Mitochondria

02.1 It's a physical barrier that stops germs entering.

02.2 63/210 which is 3/10

02.3 187 killed at pH1. 31 killed at pH5. So 156 more.

02.4 He found the middle number between 23 and 63.

03.1 Platelets → Help clot the blood where the vaccine was injected. White blood cells → Produce antibodies to the measles virus.

03.2 1968

03.3 It went up, then stayed the same, then went down.

03.4 It decreased from 92% to 80%.

03.5 Parents were worried their children would get condition X.

03.6 Have the research peer reviewed.

03.7 The author was biased.

04.1 For starch, add iodine solution, it goes blue-black. For sugar, add Benedict's solution and heat it, it goes red.

04.2 amylase, sugar

04.3 The type of bread

04.4 White bread digests quickest. Wholemeal digests slowest.

04.5 Repeated the tests. Calculated an average.

04.6 58

04.7 Each person's sense of taste is different.

05.1 Ionising radiation, Viruses

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 $50 / 800 = 0.0625\text{mm}$. $0.0625 \times 1000 = 62.5\mu\text{m}$

05.8 cells, people

05.9 placebo

06.1 same size potato piece. same type of potato.

06.2 Blot them dry.

06.3 a balance

06.4 0.1g

06.5 D

06.6 $(1.1/6.0) \times 100 = 18.3$

06.7 Line graph

06.8 water, diffusion, permeable membrane

06.9 0.2 mol/dm³

07.1 Arteries

07.2 It manually pumps the blood to get oxygen around the body.

07.3 To provide oxygen for the blood.

07.4 Statins

07.5 It's a mesh tube that is inserted into a coronary artery to keep it open, allowing blood to flow to the heart muscle.

07.6 Smoking increases the risk of all the diseases. The risk for H is 70% which is the highest.

07.7 [Graph drawn with correct axes and bars, but the label on the y-axis just says "Risk"]

07.8 Having a poor diet.

08.1 nucleus

08.2 A, D and E

08.3 With CF, digestive enzymes like lipase don't get into the small intestine. This means food like fats are not digested. This means they are not absorbed. So the person lacks the energy and building blocks from food to gain weight.

08.4 Large surface area. Good blood supply. Thin walls.

08.5 Less oxygen in the blood means less aerobic respiration, so less energy is released. The body will switch to anaerobic respiration which is less efficient.
