Magnification worksheet tes

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Last updated22 February 2018Worksheet on how to calculate magnification, with worked example and practice calculations of increasing difficulty. This worksheet is put together using a range of sources, some of which have been on TES previously so thank you!!Creative Commons "Sharealike"Select overall rating(no rating)Your rating is required to reflect your happiness.Write a reviewUpdate existing reviewIt's good to leave some feedback.Something went wrong, please try again later.Thank you for sharing, a great time saver.Empty reply does not make any sense for the end usergreat resource thanks very nice of you to shareEmpty reply does not make any sense for the end userExcellent resourceEmpty reply does not make any sense for the end userI like this a lot, exactly what I was looking for. Empty reply does not make any sense for the end userHey! My students don’t believe me when I told them answer from the sheet so do they have an answer sheet?
Thanks JillEmpty reply does not make any sense for the end userReport this resourceto let us know if it violates our terms and conditions. Our customer service team will review your report and will be in touch. These learning activities cover all of the understandings and skills in the IB guide for this topic. Lesson plans include resources to use on an interactive whiteboard and worksheets to print. There is a mix of laboratory work, theory lessons, and assessment materials with model answers. This simple sheet sets out the learning objectives, essential questions and some ideas for assessment for the following activities.Time: 1h A practical Biology lesson that will illustrate the discovery of cells in the history of Biology and teach students how to use microscopes to measure the cell sizes.Time: 0.5h How many µm make a mm? This activity gives students clear examples of biological objects to cover sizes from 1mm to 1nm. Students watch a short video clip, investigate a visual biological data base using a slider and make a display which illustrate the huge range of sizes between tiny fleas and the miniscule molecules.Time: 1h Student activities to illustrate the sizes of different cell components and to show students how to calculate cell sizes from electron micrographs. The lesson incorporates an online magnification animation and a downloadable worksheet.Time: 1h A practical laboratory in which students can visualise diffusion into blocks of different sizes. This will teach students some essential skills for internal assessment, and illustrate the concept of surface area to volume ratio.Time: 1h There are some important new skills to learn in IB Biology when it comes to the simple skill of measuring. Professional biologists and IB students are expected to know how precise their measurements are.This series of short experiments illustrates SI units and the skills a student needs to achieve high grades in data collection and processing.Time: 1-2h This lesson plan contains a range of ides for activities to encourage students to engage with the ethical issues which surround the use of stem cells and therapeutic cloning.This simple sheet sets out the learning objectives, essential questions and some ideas for assessment for the following activities.Time: 1h Students will learn how to draw and label a diagram of the ultrastructure of a liver cell as an example of an animal cell. Using a webcast and revision flashcards the teacher has more freedom to assist students individually.Time: 1h Students learn how to draw and label a diagram of the ultrastructure of Escherichia coli (E. coli) as an example of a prokaryote. Using a webcast and revision flashcards the teacher has more freedom to assist students individually.. Time: 1h Students takes samples from their mobiles phones and grow prokaryote colonies on agar plates. They investigate the hypothesis that mobiles phones harbour colonies of prokaryotes, and that touch screen smartphones are more hygienic than phones with buttons? This activity is combined with a 'webquest' to perfect prokaryote diagrams.Time: 1h A Problem Based Learning activity - to challenge students to compare different types of cells and to outline differences between plant and animal eukaryote cells and prokaryote cells. This simple sheet sets out the learning objectives, essential questions and some ideas for assessment for the following activities.Time: 1h Students will learn how to draw and label a diagram of the fluid mosaic model of membranes. Using a webcast and revision flashcards the teacher has more freedom to assist students individually.Time: 1h The accepted model of membrane structure today is the fluid-mosaic model but this has not always been so. The evidence has supported, step by step, a succession of new models each a little closer to the real structure of membranes in nature. The story of this progress illustrates many ideas about the nature of science, especially those connected with exploration and discovery.Time: 1h In this activity students see for themselves the wonderful interactions which occur inside cells and between cells using a wonderful short animation from Harvard university. The roles of some membrane proteins are clarified as well as the function of cholesterol in the cell membrane. Membrane transport modelsTime: 1h Using all that we know about molecules and about the structure of the cell membranes students are challenged to illustrate the transport of four very different molecules through the membrane using play-doh, spaghetti, food and sweets. Protein pumps, protein channels, and the phospholipid bilayer are central to the story. Time: 1h This experiment is a good first assessment of the new analysis criteria. Students measure the diffusion of pigments out of beetroot cells. By increasing the temperature of the heat treatment the leakage through the plasma membrane changes. The intensity of the colour of the leaked betalin pigments can be measured using a colorimeter. Time: 1h Students use skills learned earlier in the topic to prepare slides of onion cells, collect data in different solute concentrations, and use a scatter graph of the results to identify the concentration for 50% plasmolysis in each type of onion. This is good introduction to data processing and data analysis questions in IB exams.This simple sheet sets out the learning objectives, essential questions and some ideas for assessment for the following activities.Time: 1h Mitosis is a miraculous process. In the making of the three trillion cells of our bodies it manages to faithfully share the chromosomes equally between the daughter cells. This lesson focuses on the key details which help students achieve high marks in exams and the activities help students to make sense of these details in the context of the whole process of mitosis.Time: 1h This is a great online activity. Students are first guided through the identification of cells in different stages of mitosis using an online simulation. Once they are confidence students count and record the number of cells undergoing mitosis and those which aren't in a range of cell samples. They count the cells, calculate the mitotic index and use this as a prognostic tool to answer some questions.Time: 1h The control of the cell cycle is essential for the normal functioning of the body. Cyclins have a key role in this control. Oncogenes have the opposite effect and effectively remove the control of the cell cycle and the cells divides to form a tumor. This activity introduces students to these concepts without getting too complicated.Last updated22 February 2018Worksheet on how to calculate magnification, with worked example and practice calculations of increasing difficulty. 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