

## HOW LIFE BEGINS

### SECTION 2: CELL DIVISION AND REPRODUCTION

#### 2.1 CELL DIVISION

1. **Cell division:** the process of dividing of a cell (parent cell) into 2 or more cells (daughter cells)

Cell division = Nuclear Division + Cytokinesis (division of cytoplasm)

Cell Division	Nuclear Division
Mitotic Cell Division	Mitosis
Meiotic Cell Division	Meiosis

#### 2. Chromatin

It consists of DNA and proteins.

Before cell division, the DNA is spreading in the nucleus and does not appear to have any structure under microscope.

DNA coils many times around some proteins to form a chromosome.

#### 3. Chromosome

The characteristics of organisms are determined by the genetic materials inside their cells. Genetic information is carried by DNA which are present in the nucleus of a cell.

DNA is a molecule consists of 2 chains twisted around each other forming a double helix.

When the cell is going to have cell division, the DNA is duplicated (doubled).

The DNA is coiled around protein molecules (histone) for many times until it is condensed to form rod-like structure known as chromosome.

As the DNA is duplicated, the 2 DNA molecules are still attached together at the centromere in the chromosome.

The chromosome has 2 chromatids. The 2 chromatids are identical and known as sister chromatids. They will be separated into daughter cells during cell division.



chromatin in nucleus

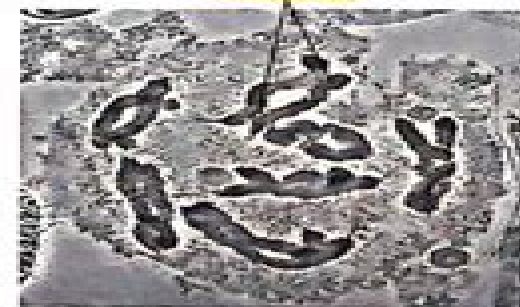


chromosomes

chromatin in nucleus



chromatids



# Scientific Essentials Of Reproduction

**Daniela Niemeyer**



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life and experimenting with human subjects religion and the environmental crisis the future of science vs the future of religion Thoroughly updated throughout this second edition explores religious traditions from around the world and provides insights from across the sciences making this book essential reading for all those wishing to come to their own understanding of some of the most important debates of our day

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**Fuels and the Environment** Denise Walker,2007 This book is packed with the latest science information and is an idea support for chemistry students at Key Stage 3 level

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learning in the classroom and across the whole school Perfect for primary practitioners and subject co ordinators this is a must have resource

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*Mushroom Biology: Concise Basics And Current Developments* Shu-ting Chang,Philip G Miles,1997-06-01 The discipline of Mushroom Biology created by the authors of this book has now been legitimized by references in the scientific literature and by two International Conferences devoted to the subject This book sets the parameters of Mushroom Biology in a concise manner and also emphasizes trends and points out future directions which will lead to a greater utilization of mushrooms and mushroom products The discipline was established to bring together persons who have in common scientific or commercial interests involving mushrooms The authors definition of mushroom is more broad than the usual mycological definition so that macrofungi other than Basidiomycetes can be included Mushrooms may be edible non edible poisonous or medicinal species with hypogeous or epigeous fruiting bodies and their texture may be fleshy or non fleshy Many aspects of Mushroom Biology are presented including nutritional and medicinal uses the role of mushrooms in bioremediation biotechnology and in the bioconversion of waste organic materials into forms that can enter the major nutrient cycles Basic scientific studies involving mushroom species are also considered with an emphasis on genetics and breeding

GED Basics: Science Peterson's,2010-08-01 Peterson s GED Basics Science offers test taking tips subject review exercises and practice test questions to help a reader score high on the GED Science Test Readers will benefit from the review and practice exercises of the following areas Life science Earth and space science Chemistry Physics The Test Yourself section will help you see if you are prepared to take this test of the GED or if additional review is needed In addition Answering Your Questions about the GED offers answers to commonly asked questions about the GED where to take the test what s on the test how the test is scored when results are sent if one can take the GED more than once and more Need extra help in science In GED Basics Science readers will see easy to use links to HippoCampus org an innovative Web site where interactive subject help is offered via high quality multimedia lessons and course content HippoCampus TM is a project of the Monterey Institute for Technology and Education MITE supported by The William and Flora Hewlett Foundation and designed as part of Open Education Resources OER GED Basics Science is a chapter of GED Basics which offers test taking tips subject review and practice test questions for each GED Test Language Arts Reading Language Arts Writing Parts I and II Social Studies Science and Math Parts I and II

**Science Readers: A Closer Look: Basics of Matter Kit** ,2010-11-09

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web born in venice in 1696 to a prosperous merchant giovanni battista giambattista tiepolo chose to pursue a career in painting he was taught by gregorio lazzarini 1655 1730 studying under him probably c 1710 in 1717 he was inscribed in the venetian painters guild as an independent painter

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