

REFERENCE UNITS

Human population = 8×10^9

area

soccer field = 7000 m^2
tennis court = 300 m^2
room = 10 m^2

volume
shipping container = 10 m^3
bathtub = 0.1 m^3
incandescent lightbulb = 100 W

mass
pick-up truck = 2000 kg
refrigerator = 100 kg
cinder block = 10 kg

CATEGORIES

LAND
ENERGY
WATER
FLORA & FAUNA
ATMOSPHERIC & BIOGEOCHEMICAL CYCLES

SURFACE TEMPERATURE
change in surface temperature since 1850 = 1°C
1850 - 1900

ICE MELT
glaciers = $3 \times 10^{11} \text{ m}^3/\text{yr} = 1$ per Δ per yr
ice sheets = $5 \times 10^{11} \text{ m}^3/\text{yr} = 2$ per Δ per yr
sea ice = $3 \times 10^{11} \text{ m}^3/\text{yr} = 1$ per Δ per yr
total = $10^{12} \text{ m}^3/\text{yr} = 4$ per Δ per yr

SEA ICE AREA
sea ice area = $2.5 \times 10^{11} \text{ m}^2/\text{yr} = 1$ per Δ per yr

MATERIAL PRODUCTION
concrete = $3 \times 10^{11} \text{ kg}/\text{yr} = 2$ per Δ per yr
steel = $2 \times 10^{11} \text{ kg}/\text{yr} = 2.5$ per Δ per yr
plastic = $4 \times 10^{11} \text{ kg}/\text{yr} = 5$ per Δ per yr

LIVESTOCK POPULATION
chicken = $3.5 \times 10^{11} = 4$ per Δ
cattle = $1.5 \times 10^{11} = 1$ per Δ
swine = $1.5 \times 10^{11} = 1$ per Δ
all livestock = $4.5 \times 10^{11} = 6$ per Δ

NITROGEN FIXATION
synthetic nitrogen fixation = $1.5 \times 10^{11} \text{ kg} = 2$ per Δ per yr

OCEAN ACIDITY
% increase in H^+ = 0.4% per yr concentration

HUMAN POPULATION
urban = 4.5×10^9
rural = 3.5×10^9
total = 8×10^9

GREENHOUSE GAS EMISSIONS
 CO_2 = $4 \times 10^{11} \text{ kg} = 2.5$ per Δ per yr
 CH_4 = $4 \times 10^{11} \text{ kg} = 5$ per Δ per yr
 H_2O = $1 \times 10^{11} \text{ kg} = 1$ per Δ per yr

SEA LEVEL RISE
rise due to added water = 2 mm per yr
rise due to thermal expansion = 1.2 mm per yr
total rise = 3.2 mm per yr

OCEAN WARMING
heat uptake = $150 \text{ TW} = 435$ per Δ
temperature change in top 700 m since 1960 = 0.2°C

LAND USE
agriculture = $5 \times 10^{11} \text{ m}^2 = 1$ per Δ
urban = $7 \times 10^{11} \text{ m}^2 = 1$ per Δ

WATER WITHDRAWAL
agriculture = $1.3 \times 10^{11} \text{ m}^3/\text{yr} = 6$ per Δ per yr
industrial = $6 \times 10^{11} \text{ m}^3/\text{yr} = 2.5$ per Δ per yr
domestic = $5 \times 10^{11} \text{ m}^3/\text{yr} = 65$ per Δ per yr
total = $2 \times 10^{12} \text{ m}^3/\text{yr} = 8$ per Δ per yr

TOTAL POWER USE
global = $16 \text{ TW} = 23$ per Δ

POWER FROM FOSSIL FUELS
natural gas = $4.5 \text{ TW} = 6$ per Δ
coal = $5 \text{ TW} = 7$ per Δ
oil = $6.5 \text{ TW} = 8$ per Δ
total = $16 \text{ TW} = 20$ per Δ

POWER FROM RENEWABLES
wind = $0.3 \text{ TW} = 1$ per Δ
solar = $0.2 \text{ TW} = 1$ per Δ
hydroelectric = $1 \text{ TW} = 1.5$ per Δ
total = $2 \text{ TW} = 2.5$ per Δ

POWER FROM NUCLEAR FISSION
nuclear power = $0.8 \text{ TW} = 1$ per Δ

RIVER FRAGMENTATION
volume of dammed and fragmented rivers = $6 \times 10^{11} \text{ m}^3 = 5$ per Δ

TREE COVERAGE AREA LOSS
deforestation = $6 \times 10^{11} \text{ m}^2 = 1$ per Δ per yr
forestry = $5 \times 10^{11} \text{ m}^2 = 1$ per Δ per yr
wildfire = $7 \times 10^{11} \text{ m}^2 = 1$ per Δ per yr
agriculture = $7 \times 10^{11} \text{ m}^2 = 1$ per Δ per yr
urbanization = $2 \times 10^{11} \text{ m}^2 = 1$ per Δ per yr
total = $2 \times 10^{12} \text{ m}^2 = 2.5$ per Δ per yr

FOSSIL FUEL EXTRACTION
natural gas = $4 \times 10^{11} \text{ m}^3/\text{yr} = 16$ per Δ per yr
oil = $6 \times 10^{11} \text{ m}^3/\text{yr} = 8$ per Δ per yr
coal = $8 \times 10^{11} \text{ kg}/\text{yr} = 1$ per Δ per yr

NUCLEAR FALLOUT
globally-distributed mass of plutonium from = $3000 \text{ kg} = 1.5$ per Δ
nuclear weapons

CONTEMPORARY EXTINCTION
animal species extinct since 1500 > 750
plant species extinct since 1500 > 120

EARTH MOVING
waste from = $7 \times 10^{11} \text{ kg}/\text{yr} = 4$ per Δ per yr
coal mining
urbanization > $15 \times 10^{11} \text{ kg}/\text{yr} = 9$ per Δ per yr
agriculture = $2 \times 10^{11} \text{ kg}/\text{yr} = 1$ per Δ per yr

oil & natural gas mineral resources

coal mineral resources

Environmental Systems And Human Impact Update

**National Research Council, Division on
Earth and Life Studies, Board on Earth
Sciences and Resources, Committee on
Research Priorities in Geography at
the U.S. Geological Survey**

Environmental Systems And Human Impact Update:

Environmental Systems and Human Impact L. W. Wright, 1993 This book provides information on the importance of the atmosphere natural vegetation soils and the surface of the earth to human society and discusses some of the ways in which the natural order has already been modified by human action Details are provided through the use of specific examples chosen particularly from Britain and New Zealand Environmental Systems and Human Impact is part of the Update series which brings together all the important aspects of recent research and up to date information for advanced students of geography and related subjects This book presents important background material for developing the discussion of green issues and is suitable for A level students and undergraduates

Environmental Systems Robert John Bennett, Richard J. Chorley, 2015-03-08 Here is an indispensable text and reference book for anyone interested in a systems approach to environmental studies It will be useful not only to geographers but also to ecologists and other environmental scientists planners economists and other social scientists philosophers and applied mathematicians Bennett and Chorley's book has a number of broad aims first to employ the systems approach to provide an interdisciplinary focus on environmental structures and techniques second to use this approach to aid in developing the interfacing of social and economic theory with physical and biological theory and third to investigate the implications of this interfacing for human response to current environmental dilemmas and hence to expose the technological and social bases of values which underlie our use of natural resources Interpreting the environment so as to embrace physical biological man made social and economic reality the authors show that the systems approach provides a powerful vehicle for the statement of environmental situations of ever growing temporal and spatial magnitude and for reducing the areas of uncertainty in our increasingly complex decision making arenas Originally published in 1979 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

Human Impact on the Natural Environment Andrew S. Goudie, 2018-06-19 A brand new edition of the definitive textbook on humankind's impact on the Earth's environment now in full color This classic text explores the multitude of impacts that humans have had over time upon vegetation animals soils water landforms and the atmosphere It considers the ways in which climate changes and modifications in land cover may change the environment in coming decades Thoroughly revised to cover the remarkable transformation in interest that humans are having in the environment this book examines previously uncovered topics such as rewilding ecosystem services techniques for study novel and no analogue ecosystems and more It also presents the latest views on big themes such as human origins the anthropocene domestication extinctions and ecological invasions Extensively

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s diversity a global perspective incorporating stimulating examples drawn from around the world to illustrate broad global patterns and contrasts The Environment explains the principles and applications of the different parts of the Earth s system the lithosphere the atmosphere the hydrosphere and explains the interrelationship across these systems It explores the present environmental crisis examines how the planet Earth fits into the wider universe and explores human environment interactions to offer a clear understanding of the diverse and complex environment we live in and new ways of thinking about the way it is changing Specific features include Lively stimulating and accessible text Superb illustrations 4 colour plate sections Case studies drawn from around the world boxed within the text Chapter summaries Annotated further reading lists A Lecturer s Manual is available to accompany the text *Environmental Systems and Societies for the IB Diploma Coursebook* Paul Guinness, Brenda Walpole, 2015-11-12 Environmental Systems and Societies for the IB Diploma follows the latest syllabus for first examination in 2017 Environmental Systems and Societies for the IB Diploma 2nd edition encourages critical and reflective thinking skills and promotes international mindedness ESL Speakers are supported throughout with a focus on vocabulary and straightforward explanation of topics appropriate for SL students Real world case studies bring theory to life and motivate students to delve into current global issues Theory of Knowledge is integrated throughout with added discussion points to spark debate in class Exam style questions build skills on analysis evaluation and interpretation Additional teacher support offers help with planning lessons differentiated learning and guidance about the Internal Assessment fieldwork exam preparation and Extended Essay Global Environmental Change Antoinette Mannion, 2014-09-19 Now in its second edition This text has been extensively revised and rewritten to reflect the growth in environmental research during the last decade Human induced environmental change is occurring at such a rapid rate that inevitably the fundamental processes involved in biogeochemical cycling are being altered Global Environmental Change considers alterations to the biogeochemical cycles of carbon nitrogen sulphur and other elements as a result of industrial technological development and agriculture which have significantly altered the natural environment The book adopts a temporal and spatial approach to environmental change beginning with the natural environmental change of the Quaternary period and continuing with the culturally induced change since the inception of agriculture 10 000 years ago **Treatise on Geomorphology**, 2013-02-27 The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this Treatise on Geomorphology will provide an important reference for users from undergraduate students

looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth's surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth's diverse surfaces This Treatise on Geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned

Encyclopedia of Geography Barney Warf, 2010-09-21 Simply stated geography studies the locations of things and the explanations that underlie spatial distributions Profound forces at work throughout the world have made geographical knowledge increasingly important for understanding numerous human dilemmas and our capacities to address them With more than 1 200 entries the Encyclopedia of Geography reflects how the growth of geography has propelled a demand for intermediaries between the abstract language of academia and the ordinary language of everyday life The six volumes of this encyclopedia encapsulate a diverse array of topics to offer a comprehensive and useful summary of the state of the discipline in the early 21st century Key Features Gives a concise historical sketch of geography's long rich and fascinating history including human geography physical geography and GIS Provides succinct summaries of trends such as globalization environmental destruction new geospatial technologies and cyberspace Decomposes geography into the six broad subject areas physical geography human geography nature and society methods models and GIS history of geography and geographer biographies geographic organizations and important social movements

Provides hundreds of color illustrations and images that lend depth and realism to the text Includes a special map section
Key Themes Physical Geography Human Geography Nature and Society Methods Models and GIS People Organizations and Movements History of Geography This encyclopedia strategically reflects the enormous diversity of the discipline the multiple meanings of space itself and the diverse views of geographers It brings together the diversity of geographical knowledge making it an invaluable resource for any academic library *Environmental Systems and Societies for the IB Diploma* Virginia D'Britto,Öykü Dulun,Emma Shaw,Joseph Cazabon,2024-06-28 Developed in cooperation with the International Baccalaureate Ensure full coverage of the updated syllabus with a coursebook that implements inquiry based and conceptually focused teaching and learning written by highly experienced global authors Explore the three key concepts in the new course perspectives systems and sustainability which allow students to deepen their understanding and make interdisciplinary connections throughout with HL content clearly signposted Prepare students for assessment with a range of options exam style questions top tip boxes and hints to help avoid common mistakes Integrate TOK into lessons and create opportunities for cross curriculum study with case studies real world examples and up to date data Provide plenty of practise with activities review questions and chapter summaries allowing students to recap themes and test knowledge Enable students to feel confident in course terminology with ESL support definitions key terms and a glossary **Environmental Systems Science** Daniel A. Vallero,2021-05-27 Environmental Systems Science Theory and Practical Applications looks at pollution and environmental quality from a systems perspective Credible human and ecological risk estimation and prediction methods are described including life cycle assessment feasibility studies pollution control decision tools and approaches to determine adverse outcome pathways fate and transport sampling and analysis and cost effectiveness The book brings translational science to environmental quality applying groundbreaking methodologies like informatics data mining and applications of secondary data systems Multiple human and ecological variables are introduced and integrated to support calculations that aid environmental and public health decision making The book bridges the perspectives of scientists engineers and other professionals working in numerous environmental and public health fields addressing problems like toxic substances deforestation climate change and loss of biological diversity recommending sustainable solutions to these and other seemingly intractable environmental problems The causal agents discussed include physical chemical and biological agents such as per and polyfluoroalkyl substances PFAS SARS CoV 2 the COVID 19 virus and other emerging contaminants Provides an optimistic and interdisciplinary approach underpinned by scientific first principles and theory to evaluate pollutant sources and sinks applying biochemodynamic methods measurements and models Deconstructs prior initiatives in environmental assessment and management using an interdisciplinary approach to evaluate what has worked and why Lays out a holistic understanding of the real impact of human activities on the current state of pollution linking the physical sciences and engineering with socioeconomic cultural perspectives and environmental justice Takes a life cycle view of

human and ecological systems from the molecular to the planetary scale integrating theories and tools from various disciplines to assess the current and projected states of environmental quality Explains the elements of risk reliability and resilience of built and natural systems including discussions of toxicology sustainability and human pollutant interactions based on spatial biological and human activity information i e the exposome Advanced Agent-Based Environmental Management Systems Ulises Cortes Garcia,Manel Poch,2009-03-08 Multi agent Systems MAS are one of the most exciting research areas in Artificial Intelligence meanwhile Environmental Studies is a research area of strategic interest Both areas can provide society with solutions for many real applications in order to use and protect the environment Human activities imply intervention into nature but properly managed these interventions can not be only ecologically sound but also favourable to the sustainable development of civilisation The encounter between these fields is a new challenge for many researchers of both communities This book presents a comprehensive reference of state of the art efforts Specifically it presents current and future ways in which adaptive information technologies techniques protocols and architectures such as software agent technologies and multi agent systems can be used to support the development of real world agent based systems in the area of e Environment *Environmental Systems Studies* Hidefumi Imura,2013-01-23 The environmental field is deep and wide In the flood of information how can people understand the underlying causes of what they hear about the environment from newspapers and television This book was originally published in Japanese with the aim of providing basic information about the ideas and methods to see and understand the interconnection between nature and human activities from a systematic point of view The author subsequently prepared an English version of the same material for use as a textbook for the Global Environmental Leaders Program at Nagoya University where he taught many students from Asia and Europe The book covers diverse environmental issues such as climatic change biodiversity preservation energy conservation and resource recycling Readers can learn common methods of analysis and thinking to identify the core essence of economic and ecological interdependence to look at problems from an overarching perspective and to consider countermeasures to be taken **Learning Progressions in Science** Alicia C. Alonzo,Amelia Wenk Gotwals,2012-07-30 Learning progressions descriptions of increasingly sophisticated ways of thinking about or understanding a topic National Research Council 2007 represent a promising framework for developing organized curricula and meaningful assessments in science In addition well grounded learning progressions may allow for coherence between cognitive models of how understanding develops in a given domain classroom instruction professional development and classroom and large scale assessments Because of the promise that learning progressions hold for bringing organization and structure to often disconnected views of how to teach and assess science they are rapidly gaining popularity in the science education community However there are signi cant challenges faced by all engaged in this work In June 2009 science education researchers and practitioners as well as scientists psychometricians and assessment specialists convened to discuss these

challenges as part of the Learning Progressions in Science LeaPS conference The LeaPS conference provided a structured forum for considering design decisions entailed in four aspects of work on learning progressions defining learning progressions developing assessments to elicit student responses relative to learning progressions modeling and interpreting student performance with respect to a learning progressions and using learning progressions to influence standards curricula and teacher education This book presents specific examples of learning progression work and syntheses of ideas from these examples and discussions at the LeaPS conference

Research Opportunities in Geography at the U.S. Geological Survey
National Research Council, Division on Earth and Life Studies, Board on Earth Sciences and Resources, Committee on Research Priorities in Geography at the U.S. Geological Survey, 2002-10-24 Research Opportunities in Geography at the U.S. Geological Survey USGS provides perspective and guidance to the geography discipline about its future research and strategic directions The book makes specific recommendations about scientific research priorities and partnerships within and outside the agency and outlines a long term core research agenda for the USGS

Integrated Environmental Planning
James K. Lein, 2008-04-15 This up to date and comprehensive reference presents the fundamentals of environmental planning incorporating theory practice and case studies The book includes balanced coverage and real world examples to illustrate the concepts Political ethical and societal considerations are all addressed Presents the fundamentals of environmental planning and methodological material for analysis Real world examples are provided to illustrate concepts Political ethical and societal considerations are addressed Coverage is balanced between theoretical and practical

Global Resources and the Environment
Chadwick Dearing Oliver, Fatma Arf Oliver, 2018-05-31 In the past few decades sustainability of natural resources and the social and environmental issues that surround them have become increasingly topical This multidisciplinary book discusses the complex relationships between society natural resources and the environment Major resources including water agriculture energy minerals and forests are considered as well as different facets of the environment including climate landforms and biodiversity Each resource is discussed in the context of both environmental and socio economic factors affecting their present and future distribution and demand Presenting a balanced comprehensive overview of the issues surrounding natural resources and sustainability this accessible volume will be of interest to policy makers resource managers graduate students and researchers in the natural and social sciences

Six Billion Plus K.
Bruce Newbold, 2007 Recognizing that world population growth will be explosive well into the twenty first century Six Billion Plus offers a geographical and global perspective on the profound implications of this trend This compact balanced and accessible text focuses on the key factors that

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