

Exploring Science

Y7

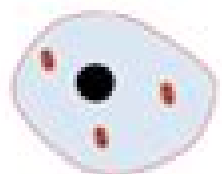
1a Cells, Tissues, Organs & Systems Revision Worksheet

Write what the 7 life processes are

- 1
- 2
- 3
- 4
- 5
- 6
- 7

Explain why a robot that can move is not a living thing

Label all the parts of the animal cell below



Draw a diagram of a plant cell. Draw lines to label all of the parts below

Nucleus
Cell Wall
Cell Membrane
Vacuole
Chloroplast
Mitochondria
Cytoplasm

1b Forces - Revision Worksheet

Complete the table below describing the function of each part in a cell

	Controls the cell and stores the DNA
Cytoplasm	
Cell Membrane	
Cell Wall	
	Where respiration happens (the process that releases energy)

Compare

Describe the difference between a contact and non-contact force

Surface

Compare the table below giving examples of each type of force

Contact	Non-Contact

Describe what's in

Describe

State units used for measuring a force

Label the diagram below with all the forces acting on the car if it was moving forwards



Describe what weight is

Draw the tissue that carries water from the roots to the rest of the plant

Write out a method for how a student could make a slide of onion cells and then look at them under the microscope

Describe the difference between weight and mass

Calculate the weight of an object on Earth which has a mass of 5 kg

Explain the simple factor

Describe a situation where friction is useful

Describe a situation where friction is not useful

Describe how friction can be reduced

Describe 3 effects of friction between moving objects

1c Mixtures & Separation - Revision Worksheet

Define the following key words

Mixture	
Suspension	
Colloid	
Solution	

In a mixture of salt water, match up the following

Solute	Salt Water
Solvent	Salt
Solution	Water

Describe what would happen if you kept adding salt to a mixture of salt water that was saturated

If you add more of salt to a glass of water, what would the state of the salt water be

State the name of the principle used in the separation above

State what the solubility of a solute means

Describe two different ways you could change the solubility of a solute

Label the diagram of a filtration practical below



Draw and label a diagram to show how you could heat a solution safely

Explain the process of producing salt that we use in food

Describe the difference between evaporation and boiling

State what you can tell about the brown spots from the chromatograph below



Describe how you would carry out a chromatography practical

State two uses of chromatography in industry

You need to separate a mixture of copper sulfate, water and sand to collect copper sulfate crystals. Write out a method for how you would carry this out below. (You will need to use filtration and evaporation)

Revision Worksheets

Exploring Science Revision Y7

JR Anderson



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The British National Bibliography Arthur James Wells,2009 *Exploring Science* Mark Levesley,2008

Dictionary Catalog Columbia University. Libraries. Library of the School of Library Service,Columbia University. School of Library Service. Library,1962 Indian National Bibliography Bellary Shamanna Kesavan,1970 *American Book*

Publishing Record Cumulative, 1950-1977 R.R. Bowker Company. Department of Bibliography,1978 **Exploring Science**

Mark Levesley,Penny Johnson,Alan Edmiston,2005 Exploring Science contains a range of differentiated material providing a variety of routes through the course making it ideal for a wide range of abilities The course provides ideas for lessons and practical work together with assessment materials linked to the National Curriculum levels **Exploring Science** ,2008

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Table of Contents Exploring Science Revision Y7

1. Understanding the eBook Exploring Science Revision Y7
 - The Rise of Digital Reading Exploring Science Revision Y7
 - Advantages of eBooks Over Traditional Books
2. Identifying Exploring Science Revision Y7
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Exploring Science Revision Y7
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exploring Science Revision Y7
 - Personalized Recommendations
 - Exploring Science Revision Y7 User Reviews and Ratings
 - Exploring Science Revision Y7 and Bestseller Lists
5. Accessing Exploring Science Revision Y7 Free and Paid eBooks
 - Exploring Science Revision Y7 Public Domain eBooks
 - Exploring Science Revision Y7 eBook Subscription Services
 - Exploring Science Revision Y7 Budget-Friendly Options

6. Navigating Exploring Science Revision Y7 eBook Formats
 - ePub, PDF, MOBI, and More
 - Exploring Science Revision Y7 Compatibility with Devices
 - Exploring Science Revision Y7 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exploring Science Revision Y7
 - Highlighting and Note-Taking Exploring Science Revision Y7
 - Interactive Elements Exploring Science Revision Y7
8. Staying Engaged with Exploring Science Revision Y7
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exploring Science Revision Y7
9. Balancing eBooks and Physical Books Exploring Science Revision Y7
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exploring Science Revision Y7
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Exploring Science Revision Y7
 - Setting Reading Goals Exploring Science Revision Y7
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Exploring Science Revision Y7
 - Fact-Checking eBook Content of Exploring Science Revision Y7
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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