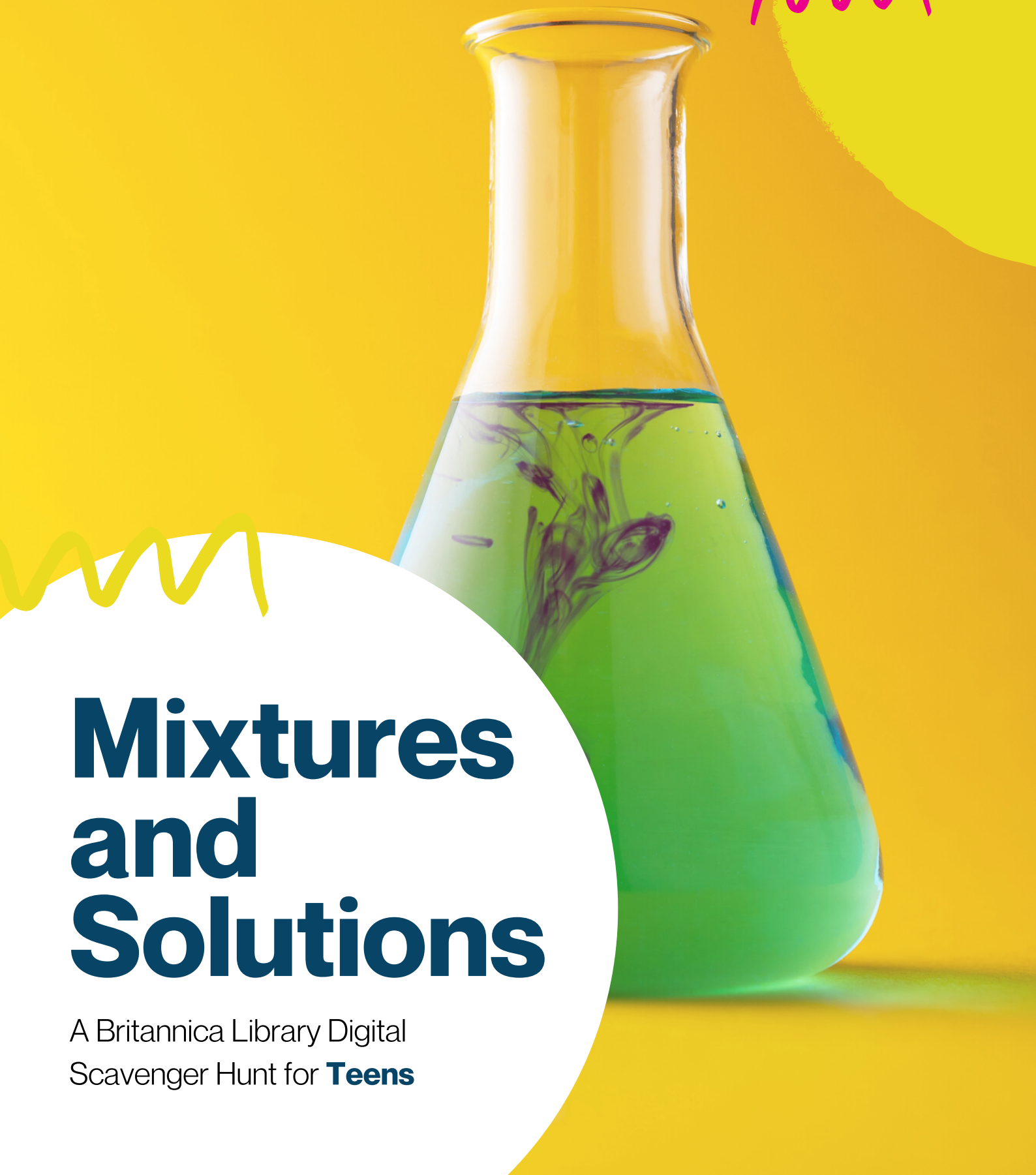
Britannica Library



# Mixtures and Solutions

A Britannica Library Digital Scavenger Hunt for **Teens**

# Introduction

> **Science combines student experiences and observations to help them answer interesting and important questions about the biological, physical and technological world.**

- Australian Science Curriculum

**"Mixtures and Solutions"** is a science-themed scavenger hunt to help children explore the contents and tools of Britannica Library while gaining Scientific knowledge and skills.

Digital scavenger hunts are a great way for learners of all ages to practice problem solving, improve their reading and comprehension skills, and have a lot of fun!

**This activity book is suitable for learners aged 13 and over. It can be completed at the library or at home.**


# Ready?

Conducting quality research is often hard and time consuming.

By completing this scavenger hunt you will discover features and tools in Britannica Library that will make your research journey easier and much more effective.

## Let's go!

- Key Word Search
- Media Images
- Media Video
- Biographies
- Britannica Tools

# Task 1: Keyword Search

**Go to the Britannica Library homepage. Now click on the Teens level. Start exploring the Teens Homepage.**

**Type the word 'Chemistry' into the Search Box. From the Results, select the article titled 'Chemistry'.**

**Use the information in the article to create a definition of each of the following chemistry terms.**

**Chemical Change:**

**Element:**

**Compund:**

**Mixture:**



**Name:** _____

# Task 2: Media Image - States of Matter

**Return to the Teens Homepage. Under Explore Britannica, find and click on Images and Videos. Select the topic 'Science & Mathematics'. Now select the subtopic 'Chemistry'. Open the first image that appears in the results, titled 'States of Matter'.**

**Use the image to label, describe and illustrate the different states of matter.**

INCREASE IN ENERGY

| _____: | _____: | _____: | _____: |
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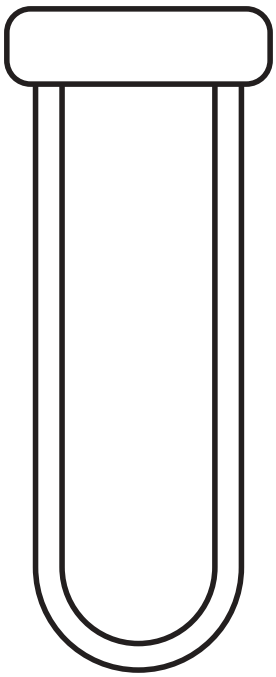
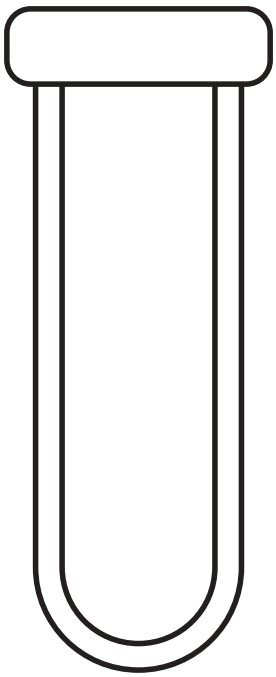
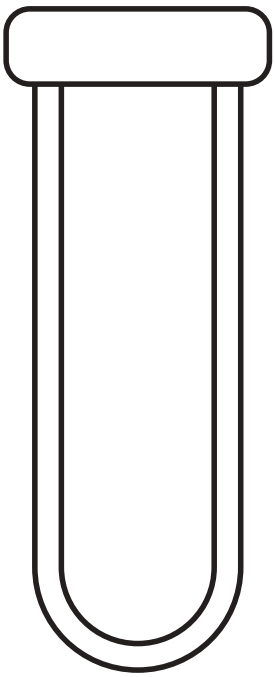
| |  |  |  |



**Name:** _____

# Task 3: Biographies - Marie Curie

**Return to the Teens Homepage and click Biographies. Limit the search by selecting '1900-Present in Era' and 'French' in the National/Cultural Association filter. Navigate to page 9 of the search results and scroll down the list until you find the biography on Marie Curie.**

**Create a biographical profile for the well known French Physicist.**

HINT: **Click here↗** to watch a video about the life of Marie Curie.

| **Name:** | **Date of Birth and Death:** | **Areas of Expertise:** |
|---|---|---|
| **Best Known For:** | | **Portrait:** (Draw Marie Curie) |
| **Major Discoveries:** | | **Interesting Facts:** |



**Name:** _____

# Task 4: Media Video - Chemical Reaction

**Return to the Teens Homepage. Find and click on Media. Select the topic 'Science & Mathematics', then the subtopics 'Chemistry' and 'Chemical Compound'.**

**Select the fourth video titled 'Chemical Reaction'. Use the information from the video to complete a flow chart illustrating the chemical reaction 'Combustion of Natural Gas'.**






**Name:** _____

# Britannica Tools

**Britannica Library has a number of very useful tools to make learning and research easier. You'll see them on every article page.**

Choose an article that has recently been revised or is new.
a. Which article did you choose?

_____

b. Somewhere on this page is a button that produces AUTOMATIC citations for you to use. What citation style options does Britannica provide? (hint: there are four.)

1._____ 2._____ 3._____ 4._____

c. Select a citation style and copy and paste the citation here.

_____

Do you ever encounter an unfamiliar word and wish you had the definition nearby?

Britannica has a tool for that too! Double-click on a word and find the Quick-Click Dictionary. Write the word and the Merriam-Webster's Dictionary definition from your article.

Word:_____

Definition_____

Find an additional tool on this article page. What did you find?

_____

Think of a situation where you would need to use this tool. Explain that situation.

_____

_____



**Name:** _____

Britannica Digital Learning

## Have questions?

To learn more about Britannica's resources and how we can support you, please email **contact@eb.com.au** or visit **https://elearn.eb.com**