

# Choose It!

## Ready-mades

SCIENCE  
LIGHT, SOUND AND  
SPACE



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## **Introduction**

**Science: Light, Sound and Space** is a set of **Chooselt! Maker** activities, supplied with the **Chooselt! Ready-mades** program. This user guide presumes you also have the general user guide for **Chooselt! Ready-mades**.

This Activity Set has 31 activities designed to give pupils revision in the knowledge learnt in practical lessons about light, sound and space at KS1 and 2. Each activity consists of up to 20 multiple choice questions, focusing on each topic. A 'Monkey' activity is also included as a fun round-up.

This program should be considered initially as a revision of facts learnt during science lessons, but also as a resource which can be used as either a teaching aid or for an assessment of the pupil's knowledge in that area. It is not a linear scheme of work. Because the topics have been broken down into very small steps, they are easily linked to SEN pupils' Individual Education Plans. Some activities are suitable for the pupil to do independently, but to get the most out of each activity a one-to-one situation is advisable. This way the language of the subject can be developed alongside the concept being practised.

All activities are self-correcting so the pupil does not experience failure. A simple scoring scheme allows you to track progress.

### **Note regarding children with learning difficulties:**

The most important aspect in the life of a special needs child is routine, because with a good routine comes security, and hence confidence. Once the child has confidence and is relaxed with the surroundings, learning can then take place. This ideal has been used when planning the activities in **Chooselt! Maker 2** by utilising repetition and simple language.

## **Installation**

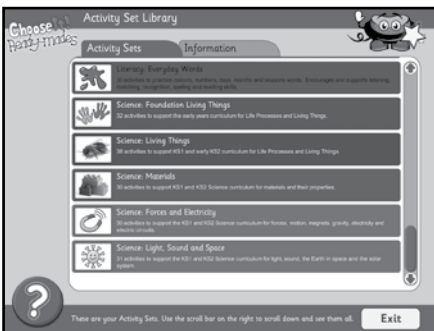
This manual is accompanied by a general user guide for **Chooselt! Ready-mades**. The **Chooselt! Ready-mades** user guide gives you help with installing and running this Activity Set. It also shows you how to use the options and how to set up switch access.

## Getting Started

This Activity Set consists of 31 activities covering:

- Light
- Sound
- The Earth in space and the solar system

To see the activities, start the **Choose! Ready-mades** program and click on **Science: Light, Sound and Space**. You can scroll down using the scroll bar on the right-hand side of the screen to see all of your Activity Sets.



To play an activity, tick the white box next to it and then click the **Play** button at the bottom of the screen.



## Quick Hints and Tips



Use the left and right arrow keys on the keyboard to skip forward or back through an activity. They can be used for:

- Reviewing the content of an activity.
- Skipping to a page more suitable for the learner.
- Going back and trying some pages again.



Remember that learners do not need to read to play these activities, as all text is spoken. Learners can click on the loudspeaker button to hear the question again.

To make an activity easier, you can use the **Prompt** options to display the answer at the bottom of the screen.

### The Activities

#### 1 - 13 Light

- 1 The sun
- 2 Light sources
- 3 Shadows
- 4 Simple shadows
- 5 Movement of shadows
- 6 Shadow quiz
- 7 Light and dark
- 8 Light and dark colours
- 9 Shiny or dull
- 10 Reflections
- 11 Signs and signals
- 12 Healthy eating
- 13 Eyes

#### 14 - 20 Sound

- 14 Making sounds
- 15 Everyday sounds
- 16 Vibrations
- 17 Identifying sounds
- 18 How the ear works
- 19 Loud and soft sounds
- 20 Pitch

#### 20 - 30 Space

- 21 Earth and space
- 22 The solar system
- 23 The planets
- 24 The solar system quiz
- 25 Earth, sun and moon
- 26 The phases of the moon
- 27 The Earth and space vocabulary
- 28 The moon quiz
- 29 Space exploration
- 30 Astronomy
- 31 Monkey in space

## The Activities

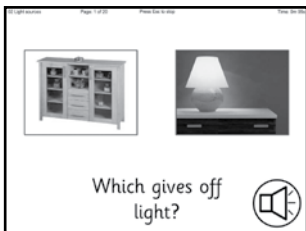
### 1 - 13 Light

#### 1) The sun - 17 pages



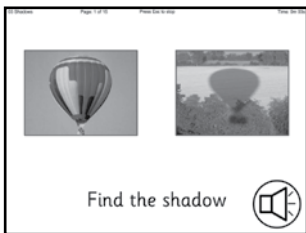
The first ten pages of this activity consist of simple questions about the sun and the effect it has on us. From page 11 the questions become a little harder and the close-up view of the sun is introduced. Two and three choices are given throughout this activity.

#### 2) Light sources - 20 pages



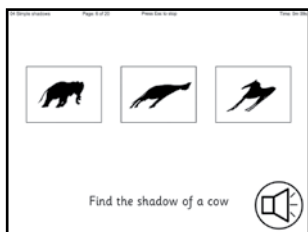
The first twelve pages of this activity give samples of different sources of light, then the following pages differentiate between natural and artificial sources of light. Each page has either two or three choice boxes.

#### 3) Shadows - 15 pages



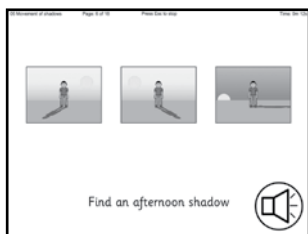
This activity can be used as a simple introduction to work on shadows. Each page has only two choices, one of the object and one showing the shadow of the object.

#### 4) Simple shadows - 20 pages



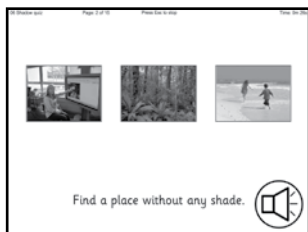
Simple shadows of animals are used in this activity which show the distortion of an animal's shape in its shadow.

#### 5) Movement of shadows - 18 pages



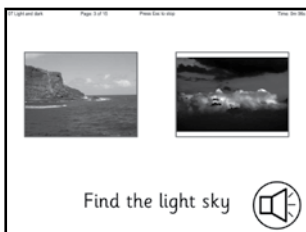
This could be used as a follow-up and revision activity to practical recording sessions of shadows throughout the school day. Two, three and four choices are used.

#### 6) Shadow quiz - 15 pages



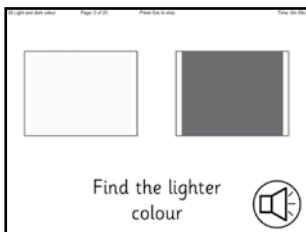
This is a revision activity to be used at the end of a topic on shadows. After the first two pages there are only written words with speech in the choice boxes. Two and three choices are given throughout this activity.

## 7) Light and dark - 15 pages



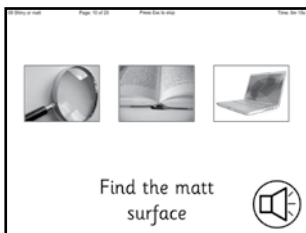
This activity asks the pupil to choose either a dark or a light place from a choice of two pictures on each page. The first two pages introduce day time and night time and then the final two pages introduce the owl and the bat as night time creatures to encourage discussion.

## 8) Light and dark colours - 20 pages



The names of the shades of colours have been avoided in this activity because the aim is to compare light and dark only. When working with more able pupils these colour names could be introduced.

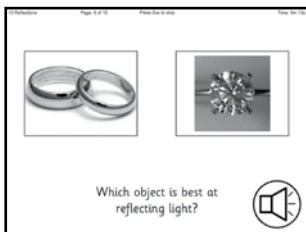
## 9) Shiny or matt - 20 pages



This activity simply asks the pupil to choose between pictures of shiny or matt surfaces. The first five pages have only two choices, then the rest of the activity has three.



## 10) Reflections - 15 pages



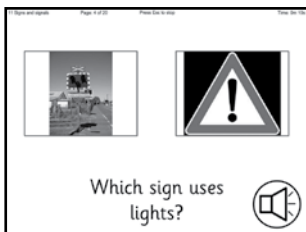
Page 2 of 15

Which object is best at reflecting light?

Two images are shown: two metal rings on the left and a diamond ring on the right. A speaker icon is in the bottom right corner.

This activity is for use after a practical lesson on reflections. Throughout, there are only two choices on each page. The activity begins with a small revision on light sources to link in the fact that reflections need a light source to be present for the object to be able to reflect it.

## 11) Signs and signals - 20 pages



Page 2 of 20

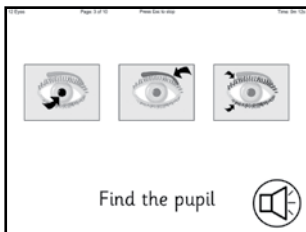
Which sign uses lights?

Two images are shown: a traffic light on the left and a triangular warning sign with an exclamation mark on the right. A speaker icon is in the bottom right corner.

This is an example of a topic which could be used to teach a practical aspect of using light.

Two choice boxes are used throughout this activity, with the exception of pages six to eight where the colours of traffic lights are shown.

## 12) Eyes - 10 pages



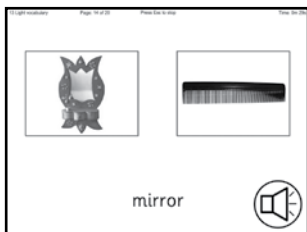
Page 2 of 10

Find the pupil

Three diagrams of an eye are shown, each with a different part highlighted. A speaker icon is in the bottom right corner.

This is a short introduction to the names of parts of the eye and their functions. With the exception of the last page there are three choices throughout.

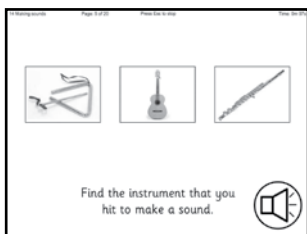
### 13) Light vocabulary - 20 pages



This activity uses twenty basic words which are used when talking about the topic of light. These words have been taken from the previous twelve activities. Two choices are given throughout.

### 14 - 20 Sound

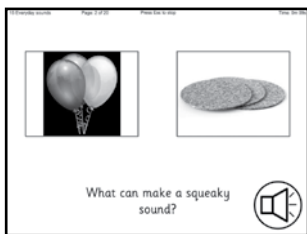
#### 14) Making sounds - 20 pages



In this activity the pupil is taught that instruments make sounds by the following actions: shaking, scraping, hitting and blowing. The name of the instrument is spoken when the mouse is rolled over it. The sound of the correct instrument is given at the beginning of the reward.

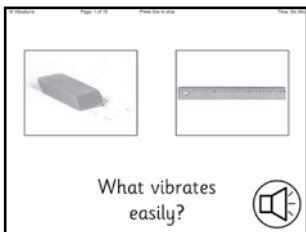
Two choices are given for the first four pages, then three choices for the rest of the activity.

### 15) Everyday sounds - 20 pages



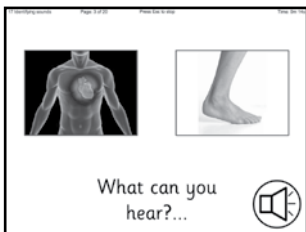
This activity encourages the pupil to listen to the world around them and to hear what sounds can be made with everyday objects.

## 16) Vibrations - 15 pages



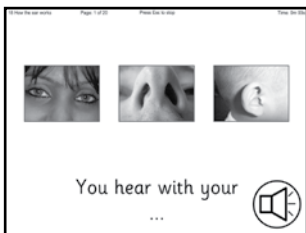
This activity should be used in conjunction with a practical session on making everyday objects vibrate. The first nine pages give examples of everyday objects that can vibrate. Pages ten to fifteen give examples of objects that can muffle sounds.

## 17) Identifying sounds - 20 pages



The sounds of a selection of instruments, animals and everyday objects are given for the pupil to identify. The pupil must listen to the sound then click on the picture that matches. Both the name and the sound are given in the reward.

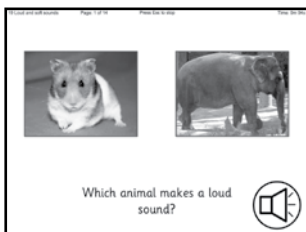
## 18) How the ear works - 20 pages



This activity could be used as a follow-up to a class lesson on how we hear and the process that is involved in this. It is an introduction to naming the parts of the ear and their functions.

Two or three choices are given throughout.

## 19) Loud and soft sounds - 14 pages

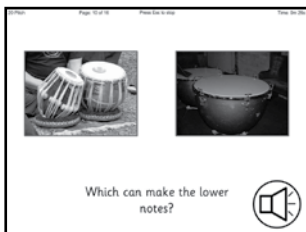


Which animal makes a loud sound?

This activity page features two side-by-side images: a hamster on the left and an elephant on the right. Below the images is the text 'Which animal makes a loud sound?' and a speaker icon on the right side.

In the first six pages the pupil chooses the animal or object that makes the loudest or softest sound. For the rest of the activity a drum, whistle and guitar are used for examples of how to play loud or soft.

## 20) Pitch - 15 pages



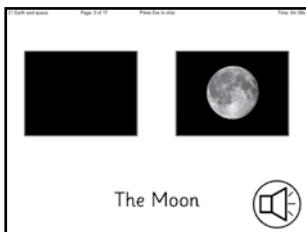
Which can make the lower notes?

This activity page features two side-by-side images: a pair of tabla drums on the left and a mridangam drum on the right. Below the images is the text 'Which can make the lower notes?' and a speaker icon on the right side.

This activity introduces pitch by concentrating only on high and low notes using musical instruments and everyday objects. Two choices only are used on each page to keep the activity simple.

## 21 - 30 Space

### 21) Earth and space - 17 pages

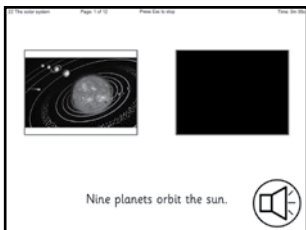


The Moon

This activity page features two side-by-side images: a solid black square on the left and a full moon on the right. Below the images is the text 'The Moon' and a speaker icon on the right side.

The Earth, sun, moon and stars are introduced in this activity. As this is an introductory activity the picture of the sun is as seen from Earth. The first eight pages have only two choices; the following nine pages have three choices.

## 22) The solar system - 12 pages

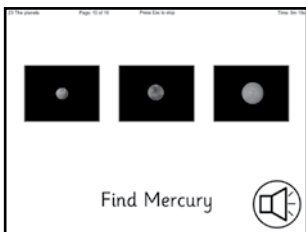


The planets in the solar system are shown and named, one page at a time, including a short piece of information on each planet.

Pluto has kept its status as a planet in this activity, although it has recently lost it, because the majority of children's books about planets still include it.

The adult should explain that space investigations are always changing our knowledge about the solar system.

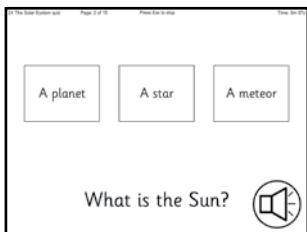
## 23) The planets - 18 pages



This is a revision activity after a class lesson on the names of the planets. The first nine pages have only one choice, the second choice being blacked out. The planets are again introduced one at a time to familiarise the pupil with their names.

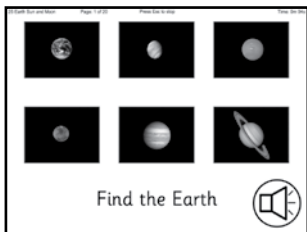
Pages ten to eighteen then have three choices on each page, the pupil choosing the correct picture of the named planet. Although the sun is not a planet it has been used as one of the choices on some of the pages.

## 24) The solar system quiz - 15 pages



This activity is a quiz about the basic facts related to our solar system for the more able. Two or three choices have been used. There is a mixture of pictures and written choices throughout the quiz although all text is spoken when the mouse is rolled over it.

## 25) Earth, sun and moon - 20 pages



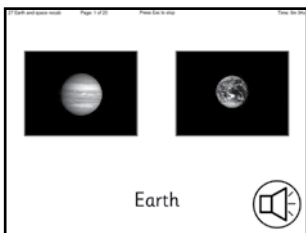
This activity investigates the relationship between the Earth, sun and moon for the more able. It starts using pictures in the choice boxes but as the pages progress, written statements are used. This has the usual speech support.

## 26) The phases of the moon - 20 pages



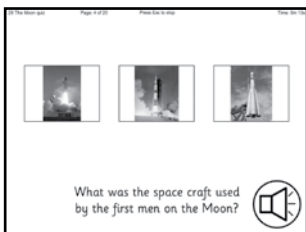
This is another activity for the more able or younger children who are fascinated by the universe. It is designed as a follow-up activity after a lesson about the phases of the moon or an assessment.

## 27) The Earth and space vocabulary - 20 pages



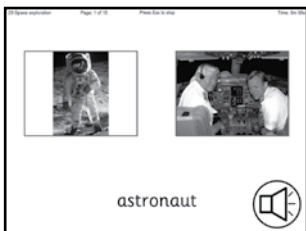
This activity uses twenty words or phrases which have been used in previous space activities as a revision for the more able. There are only two choices on each page.

## 28) The moon quiz - 20 pages



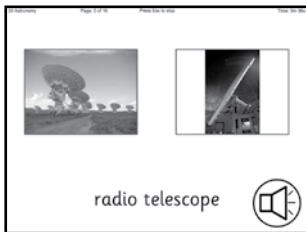
This activity is a quiz about facts related to the moon for the more able. Two or three choices have been used. There is a mixture of pictures and written choices throughout the quiz. All text is spoken when the mouse is rolled over it.

## 29) Space exploration - 15 pages



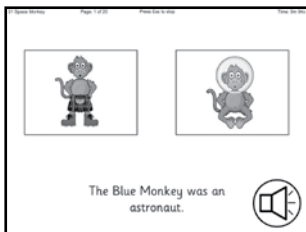
This activity introduces fifteen objects related to space exploration, using two choices with speech support throughout.

### 30) Astronomy - 16 pages



This is a basic introduction to some of the vocabulary used in astronomy. Two choices only are on each page to make the activity easier for younger children.

### 31) Monkey in space - 20 pages




The Blue Monkey visits the planets to see if any other monkeys live there. He soon finds out that it is very lonely in space so he comes back to Earth to all his friends.



# Worksheets

**Choose the Best mate** Earth, Moon and Sun





Label the Earth, Moon and Sun

Which is a planet? \_\_\_\_\_

Which is a star? \_\_\_\_\_

Which is a satellite? \_\_\_\_\_

**Draw Earth**



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**Choose the Best mate** Loud or soft?

Sort the objects into things that make a loud sound and things that make quiet sounds



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## ***Wikipedia image credits***

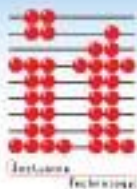
<b>Picture</b>	<b>Author</b>
Globe	Hoshie
S. Hemisphere	Sean Baker
N. Hemisphere	Sean Baker
Equator	C.Burnett
Yuri Gagarin	NASA
Neil Armstrong	NASA
Apollo 11	NASA
Edwin Aldrin	US Air force
Vostoc1	Sergei Arssenev
Challenger	NASA
Crater	NASA
Eclipse	NASA
Space man	NASA
Rocket	Murali Dhanakoti
Launch pad	US Air force
Space shuttle	NASA
Lunar module	NASA
Space Suit	Jawed Karim
Space helmet	NASA
Sputnik	NASA
Space food	NASA
Satellite	NASA
Lunar rover	NASA
ILS	NASA
Ground control	PD – USGOV
Shuttle carrier aircraft	NASA
Refracting telescope	Ericol
Radio telescope	Hajor
Lovell telescope	Mike Peel
Newtonian telescopes	Analogue Kid
Observatory	Japanese author
Telescope	Tom Hannen
Big Dipper	GH5046
Astronomers	Halfibblue
Orion	Ptigrovick
Andromeda galaxy	US GOV

Northern lights	Flickr
Northern lights	Nick Russell
Milky Way	NASA
Asteroid	NASA
Comet	NASA
Balloon	Dixonsej
People on the beach	Matthew Bowden
Marble	Henry Muhlfordt
Flowers	Nevit Dilmen
Person	Thapthim
Building	APK
Candle	Forrest junky
Moths round a flame	Sergio
Dark sky	Kabir
Diamond ring	Sapaud
Gold rings	Musaromana
Level crossing lights	Ian Dunster
Warning sign	Andrea
Warning message	Demi
Runway lights	US Air force
Low flying air craft	3247
Fire engine	Mailer – Diabolo
Wide load	Verne Equinox
Lighthouse	Michael Spiller
Refraction	B Crowell
Light rays	Mnd. Salful Aziz Shanseer
Baby by mirror	Ranveig
Dim Lighting	Don Williams
Guiro	Elisardojm
Flute	Loppa
Hand Bells	Suguri F
Didgeridoo	Anse
Washboard	Rosier
Pan pipes	Arent
Cow bells	Badseed
Xylophone	Tomasz Sienicki
Ratchet	Matej Bat'ha
Bicycle wheel	Dhodges
Anvil	Benutzer Schnvomheinz
Glockenspiel	Flamurai

Open window  
Closed door  
Duvet  
Sheets  
Ear muffs  
Hard hat  
Ear plugs  
Tuning fork  
Drumsticks  
Drum  
Drill  
Spanner  
Guitar strings  
Newspaper  
Puppy German shepherd  
Alarm clock  
Wristwatch  
Flute

Tuanta  
Fg2  
Devi20  
Stifehler  
Gaschw  
Google image  
Kick the beat  
Wollschaf  
Uryah Down + Chris Asnine  
Marco van den Hout  
Wojciech Krajewski  
White Cat  
Robotman 1974  
Jenson  
Paula69  
Jorge Barrios  
Elinord  
Poras

## Notes



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# Choose It!

## Ready-mades

### SCIENCE

#### LIGHT, SOUND AND SPACE

31 activities designed to give pupils revision in light, sound and space at KS1 and 2. Printable resources for off-computer activities can also be found on the CD. Ideal for individual use and for group use on the interactive whiteboard.

This program is ideal for supporting learning and assessment, with clear, consistent presentation and simple performance recording. Includes additional audio support for visual impairment and switch access support for those with physical disabilities.



Which sign uses lights?



End on screen failure

