HMRC Accessibility Empathy Hub

Changing People’s Perceptions

# Simulation spectacles

## Did you know?

250

people in the UK start to lose their sight every day.

2 million

people (1 in 30) live with sight loss that impacts on their day-to-day lives.

8 percent

of men have colour deficiency

360,000

people are registered with their local authority as severely sight impaired or partially sighted.

4 million

are predicted to have sight loss by 2040

## Simulation Package

The simulation package is a pack of 10 spectacles designed by sight loss professionals that enables users to understand difficulties faced by people with sight problems. The Accessibility Empathy Hub makes use of the spectacles to simulate the symptoms of the most common eye conditions, distance vision impairment and test visual acuity. Acuity is categorised as:

Mild 6/12 should see something over 12 meters but sees less than 6 meters

Moderate 6/18 should see something over 18 meters but sees less than 6 meters

Severe 6/60 should see something over 60 meters but sees less than 6 meters

Blindness 3/60 should see something over 60 meters but sees less than 3 meters

## Try these activities

1. Read the newspapers on the desk

2. Write a shopping list

3. Use your phone

4. Visit GOV.UK

5. Use Google maps to find a location

6. Watch a You Tube video

## Below is the layout showing the individual numbered spectacles as they are presented in the carry case.

### Number 5 Reduced visual acuity

Reproduces a level of vision of approximately 3/60 to 1/60. A person would normally be registered blind with this level of visual acuity. Common symptom of age related macular degeneration

### Number 1 Tunnel Vision

Reproduces a speck of vision in a void of darkness.

### Number 9 Loss of binocular vision

Light perception only in the right eye and reduced visual acuity approximately 6/18 in the left eye. These spectacles demonstrate how loss of vision in one eye affects overall vision.

### Number 3 Left side loss of vision

Loss of half visual field in each eye, (Right side Hemianopia).

### Number 7 Reduced visual acuity

Leaving less than 1/60. Complete loss of central vision with some remaining peripheral vision. Common in some congenital sight conditions and Age Related Macular Degeneration.

### Number 2 Right side loss of vision

Loss of half visual field to the right in each eye, (Left side Hemianopia).

### Number 4 Loss in visual acuity

Reduced visual acuity leaving a level of vision of approximately 6/18 - just below driving standard. Symptomatic of the early stages of many eye conditions.

### Number 6 Hazy vision

Hazy vision with light scatter and glare. Variable visual acuity. Typical of Cataracts but also some forms of Macular Degeneration, Retinal Degeneration and other eye conditions.

### Number 10 Severe vision loss (light projection only)

Severe loss of vision leaving light perception only. A person can identify between light and dark but has no useful vision.

### Number 8 Retinal Degeneration

Loss in both visual field and visual acuity leaving "patchy" vision. Symptomatic of conditions affecting the Retina such as Diabetic Retinopathy, Retinitis Pigmentosa and other conditions.