## **EXERCISE - AN EXISTING PRODUCT TO AN INCLUSIVE PRODUCT**

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

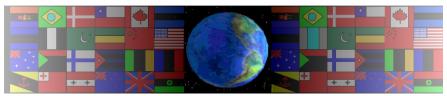
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On behalf of The World Association of Technology Teachers

## W.A.T.T.



World Association of Technology Teachers

This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet.

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## EXERCISE - AN EXISTING PRODUCT TO AN INCLUSIVE PRODUCT https://www.facebook.com/groups/254963448192823/ www.technologystudent.com © 2017 V.Ryan © 2017

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ADVANTAGES

The hand drill is used regularly in workshops as a way of drilling holes in materials such as woods and plastics.

Quite cheap to buy. Available in various sizes.

Verv useful when there is no electricity supply.

Ideal for use at home.

The drill can be dismantled for recycling. It can be used to bore holes in horizontal and vertical surfaces.

Easy to store.

Lightweight.

Simple technique to drill holes.

## **INCLUSIVE DESIGN PROBLEM**

CHUCK

DUST BUILDING UP

However, if you have difficulty using your hands and fingers (for example, you suffer from arthritis), using the hand drill could be very difficult and painful.

1. In pairs or groups, discuss the problems associated with the use of the hand drill. You will need to use a hand drill to bore some holes in 'scrap' material. Carefully identify every problem and describe them below. Keep in mind people who have difficulty using their hands and fingers.

**2.** In pairs or groups, discuss design solutions to the problems you have identified AND how the hand drill design could be changed, to ensure that people with 'problems' with their hands and fingers (arthritis), could effectively use the hand drill.

Remember - an inclusive design, is one that can be used by as wide a range of users as possible. The design should be <u>effective</u> for all users.

Working <u>individually</u>, sketch possible solutions to the problems that have been identified, adding explanatory notes, on the page below.

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NOTES

SKETCHES
