

Science Year 4
Machine (Revision)

Name:

Class:

Answer all the questions.

1. A group of Year 4 Cemerlang pupils have collected photographs on simple machines as shown below.



(a) State the type of simple machines shown in Diagram 1.

(b) Name the three components of simple machines R,S and T.

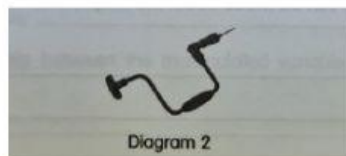
(c) Simple machine S has three components. Name X, Y and Z.

X :

Y :

Z :

(d) A pupil increases the picture collection as in Diagram 2 below. The pupil chooses a complex Machine.



List out the simple machines found in Diagram 2 above.

(e) How does the tool in the Diagram 2 above help in our work?

2. Diagram 2.1 and 2.2 show a type of simple machine that makes a young man's work of pushing a heavy wheelbarrow up a lorry easier.



(a) What simple machine is used above?

(b) What is the use of the simple machine above?

- (c) This young man is required to load things of various sizes and weight onto a lorry. However, he realizes that as the time gets on, it gets more difficult and slower for him to carry out this task. What can he do in order for him to load as many boxes quickly without tiring himself?
- (d) What is the manipulated variable in the diagram above?
- (e) What conclusion can be made about the simple machine above and the force to do the work?