Science Year 4

Enrichment Practice (Light)

Name: Class:

Answer all the questions.

1. The diagram below shows the apparatus set-up to investigate the clarity of shadows formed by three different types of objects.

(a)State the object that is

(i) transparent :

(ii) translucent:

(iii) opaque :

(b) Based on the investigation in the above diagram, complete the observation table below.

Object	Obsevation
(i)	The shadow formed in not clear
(ii)	No shadow is formed
(iii)	The shadow formed is clear

(c) How is a shadow formed?

2. A group of pupils arranges the tools and materials for their investigations sown in the diagram below. They recorded their observation in the following table.

Distance between the toy car and the screen (cm)	Size of shadow on the secreen
20	Small
25	Medium
30	Big

(a) What is the conclusion that can be made from this investigation?

(b) What is the constant variable in this investigation?

(c) Based on the above investigation, what is the factor that affects the size of the shadow?

LIVEWORKSHEETS