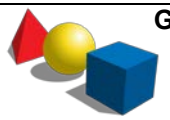
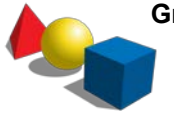
S1 Home Learning Challenge

Technologies:

- You choose which activities to complete to extend your learning at home
- You can get any resources you might need from your class teacher or use your own if it suits you
- As you complete each activity, ask your class teacher to sign and date it
- Complete a row diagonally, horizontally or vertically to get 10 House Points
- Earn 50 House Points if you complete the whole grid for the Faculty
- Hand in your signed sheets to Mr Duncan

Computing Science: Your challenge is to log on to GLOW at home. Then send an e-mail to your class teacher. The e-mail should contain one fact you learned in Computing Science. **Class teacher signature and date:**	**Computing Science:** Your task is to find out what security software (if any!) your computer at home has. Complete the checklist sheet. Ask your teacher for a checklist to complete at home. An electronic copy is also available on the school website **Class teacher signature and date:**	**Computing Science:** Research the ILOVEYOU virus. Fill out the key facts worksheet Ask your teacher for a checklist to complete at home. An electronic copy is also available on the school website **Class teacher signature and date:**
Engineering Science: Identify, and list, at least 4 items found in your home that would have been designed by each of the following types of engineer – Electrical, mechanical, structural and chemical. **Class teacher signature and date:**	**Engineering Science:** Keep a diary of how many electrical items you use in one day, and write down what you used them for e.g. calculator - maths homework. **Class teacher signature and date:**	 **Graphic Communication:** Sketch two different pictorial views of a cube and render them using shade and tone. Choose from the following pictorial techniques – 1 point perspective, 2 point perspective, oblique or isometric. **Class teacher signature and date:**
 **Graphic Communication:** Sketch an elevation of a watch of your own design. Render it to show the materials used in your watch design. **Class teacher signature and date:**	**Design and Manufacture:** Look around your home and identify three items that are made from wood, three items that are made from plastic and three items that are made from metal. **Class teacher signature and date:**	**Design and Manufacture:** Produce a design for a new gaming chair. Add comments to explain its features. **Class teacher signature and date:**

Name: _____ Class/ House:_____

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