Answer sheet

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IG Teaching Hubs Chemistry Worksheets

Lesson 76 – Worksheet 1

**1** Substances giving a visible reaction named.

**2** Explanations of possible damage (wearing away, holes, corrosion) to buildings given, e.g. zinc roofs damaged; steel nails, screws and (exposed) girders damaged; aluminium window frames damaged; walls damaged if they are made from limestone, marble or concrete.

**3** Advantages could include: indoors rather than outdoors; faster; buildings are not damaged. Disadvantages could include: acid may not be at the same concentration as acid rain; materials often not used separately; results may not accurately reflect long-term exposure to acid rain. Conclusion given, supported by one or more advantages and/or disadvantages.

IG Teaching Hubs Chemistry Homework sheets

Lesson 76 – Homework

**1** Each word **[1 mark]**

Fossil

Separated

Distillation

Boiling

Fractional

High

Lower

Low

Gases

Cooler

Condense

Fractions

Column

**2** **a** **[3 marks]** for all correct; **[2 marks]** for 5 or 4 correct; **[1 mark]** for 3 correct; **maximum [3 marks]**

**b** **1 mark** for each use; **maximum 6 marks**

|  |  |  |
| --- | --- | --- |
|  | Fractions | Uses |
| Refinery gases | * (domestic) heating * Cooking |
| Gasoline (petrol) | * fuel for motor vehicles/cars |
| Kerosene | * fuel for aircraft |
| Diesel | * fuel for some motor vehicles/cars/trains * fuel for buses/lorries |
| Fuel oil | * fuel for ships/some power stations |
| bitumen | * surfacing roads * roofs |

**c** bitumen **[1 mark]**

**d** refinery gases **[1 mark]**

**e** gasoline/petrol **[1 mark]**

**f** bitumen **[1 mark]**

**3** **a** sulfur dioxide **[1 mark]**

**b** SO2  H2O → H2SO3 **[1 mark for reactants, 1 mark for products]**

**c** 2H2SO3  O2 → 2H2SO4 **[1 mark for reactants, 1 mark for products, 1 mark for balancing]**

**d** **i**    stonework/limestone/statues weathered/broken down **[1 mark]**

**ii** plants/crop/trees damaged/killed **[1 mark]**

**iii** weakening/corroding metals/structures **[1 mark]**

**iv** fish are killed/fish eggs do not hatch **[1 mark]**