Mixed question types

1 Explain why X reacts w/ ...

- Explain why K reacts w/ diwte acids.
- : Kreacts w/ water.
 Range of metal reacting w/ acid > water
 - : Kreacts w/ dilute acids

2 Explain which metal is more reactive

- Explain which is more reactive, K or Ag.
- K To produce metal oxide, K doesn't require heat while Ag needs strong heating.

3 Arrange reactivities

- According to the following table, arrange reactivities of W, X, Y, Z ascendingly.

	IW	χ	Υ	Z
+CUSO4 (aq)	colourless gas bubbles	reddish brown solid deposits	no 0.C.	no 0.C.
_	W20	XO	Y20	20
hearting	no O.C.	no 0.C.	Silvery solid deposits	no O.C.

- Y, Z, X, W
- (X,Y,Z)<W Wreacts w/ water, others do not
- (Y,Z) < XX is a stronger reducing agent than Cu, others are not
- Y < Z Y_2O decomposes and gives Y upon heating, ZO does not

4 Distinguishing oxides

- Distinguish Cuo, Alzos, Pbo and Agzo experimentally.
- Heat directly \rightarrow the one w/ silvery solid depositing is Ag₂O. Ag₂O has low thermal stability \rightarrow decomposes under heat, others do not
- Heat $w/H_z \rightarrow$ the one w/ readish brown solid depositing is Cuo Cu is a weaker reducing agent than $H_z \rightarrow v/r\alpha$ Pb, Al is Stronger reducing agents than $H_z \rightarrow x/r\alpha$
- Heat w/ CO → the one w/ silvery solid depositing is PbO.

 Pb is a weaker reducing agent than CO → V ra

 Al is a stronger reducing agent than Co → X ra
- Al can only be extracted by electrolysis of molten Alzos.