

Biological Systems and Processes

Lesson 11 - Alcohol

KS3 Biology

Miss Hindle



Quick Recap...

1. What is the name of the addictive substance in cigarettes?

N.....

2. What is the name of the substance in cigarettes that lowers the amount of oxygen that to bind to the red blood cells?

C..... M.....

3. Give three health problems caused by smoking...

4. What is the problem with damaging the ciliated cells in the trachea?



How does alcohol get into the blood of the fetus?

1. The alcohol moves from the _____'s blood
2. Into the _____'s blood
3. It moves by _____
4. The alcohol moves this way because...

(use the words diffusion and concentration)



Wider effects of alcohol...

| Health | Social | Economical |
|--------|--------|------------|
| | | |
| | | |
| | | |
| | | |
| | | |

Decide whether these statements are health, social or economical issues with alcohol. Some may fit into more than one column

- 1. Policing of town centres
- 2. Drunken behaviour
- 3. Liver transplants
- 4. Drink driving deaths
- 5. Bottle/can litter in parks
- 6. Babies born with FAS
- 7. Mouth cancer
- 8. A&E admissions for alcohol poisoning
- 9. Liver disease



Exam Style Q - Should alcohol be legal?! (4 marks)

Use you the information you have just written and your own knowledge to come up with your answer.



The effect of alcohol on reaction times

| Blood alcohol level (%) | Average reaction time (s) |
|-------------------------|---------------------------|
| 0.10 | 0.36 |
| 0.12 | 0.42 |
| 0.14 | 0.48 |
| 0.16 | 0.49 |
| 0.18 | 0.61 |
| 0.20 | 0.70 |

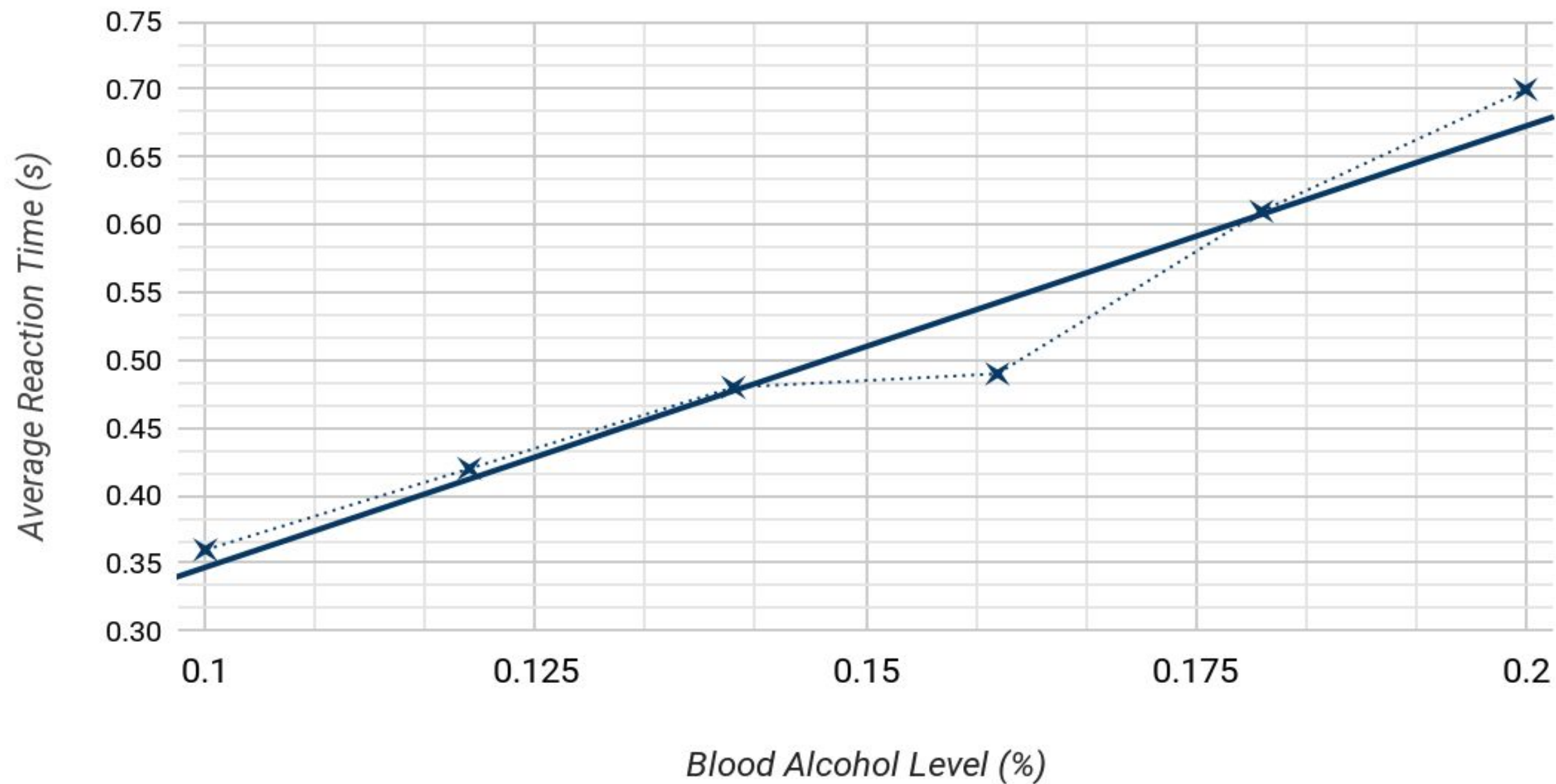
What sort of graph would we present this as and why?





Exam Style Question...

A graph to show how blood alcohol level affects reaction time



Credit: Miss Hindle

Describe
and **explain**
the findings
in the
graph...
(4 marks)

