

# SAPPHIRE RING

<http://www.youtube.com/watch?v=XvhT4PnmK1I&feature=channel>

## 1. Answer the questions:

- a. Who did the title ring belong to originally?
- b. What does the ring consist of?
- c. Why is sapphire used as a window in high pressure vessels?
- d. Give examples of transition metals.
- e. What is white gold?
- f. What are carats?
- g. What will happen to the diamond, gold, and sapphire when you throw them into liquid oxygen?
- h. What engagement ring did the professor give his wife?

## 2. Fill the gaps:

- a. Sapphire is an \_\_\_\_\_ of \_\_\_\_\_ .
- b. Aluminium oxide is \_\_\_\_\_ .
- c. Natural sapphire has metals \_\_\_\_\_ in it.
- d. If you \_\_\_\_\_ chromium into aluminium oxide you get a red colour; it's called \_\_\_\_\_ .
- e. If you \_\_\_\_\_ iron or some other elements you get this very nice blue or sometimes \_\_\_\_\_ colour.
- f. You can make synthetic sapphire, but it's not so \_\_\_\_\_ .
- g. The cheapest form of white gold uses \_\_\_\_\_, but then, increasingly expensively, you can use \_\_\_\_\_, or \_\_\_\_\_ .
- h. Diamond is a \_\_\_\_\_ form of \_\_\_\_\_ .
- i. Diamond is absolutely \_\_\_\_\_ like \_\_\_\_\_ .