

Space Exploration: The Rockets¹ (DVD) Teacher Notes

- 1) **Who is Robert Goddard?** Robert Goddard invented the liquid propelled rocket.
- 2) **Why is he referred to as the “Father of Rockets”?** Robert Goddard invented the liquid propelled rocket. This enabled a lot more control over the rocket, as before the rockets were solid and they would burn until there was no more fuel left. (By the way, our program is funded by the Goddard Space Flight Center.)
- 3) **Newton’s 3rd Law of Motion states that:** for every action there is an equal and opposite reaction.
- 4) **What was the V2 rocket?** The first long range ballistic missile to be actively used in combat.
- 5) **What is a G-force?** A unit of force equal to the force exerted by gravity; used to indicate the force to which a body is subjected when it is accelerated.
- 6) **Who was the first man to walk in space?** Soviet cosmonaut Aleksei Leonov made the first space walk during the Voskhod II mission on March 18, 1965
- 7) **Who was the first man to walk on the moon?** Neil Armstrong was the first man to walk on the moon.
- 8) **“One small step for man, One giant leap for mankind.”**
- 9) **Throughout the history of rockets (which you have just watched) what was the greatest obstacle that had to be overcome?** Controlling the rockets. This was accomplished by replacing solid fuel by liquid fuel.
- 10) **Take 10-15 notes on the rest of this video using the rest of this paper.**

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