

## **SCIENCE AS A PROCESS**

**Discuss the evidence supporting the endosymbiotic theory**

## **SCIENCE AS A PROCESS**

**List the components that should be included when describing an experiment**

## **SCIENCE AS A PROCESS**

**Describe an experiment that tests the effect of a factor on respiration rate**

## **SCIENCE AS A PROCESS**

**Describe an experiment that tests the effect of a factor on rate of photosynthesis**

## **SCIENCE AS A PROCESS**

**Describe an experiment that measures net photosynthesis**

## **SCIENCE AS A PROCESS**

**Describe an experiment that tests the effect of a factor on heart rate**

## **SCIENCE AS A PROCESS**

**Describe an experiment that tests effect of a factor on dissolved oxygen**

## **SCIENCE AS A PROCESS**

**Describe an experiment that tests the effect of a factor on rate of diffusion**

## **SCIENCE AS A PROCESS**

**Describe an experiment that tests the effect of a factor on animal behavior**

## **SCIENCE AS A PROCESS**

**Describe an experiment that tests the inheritance pattern of a mutation**

## **SCIENCE AS A PROCESS**

**Describe an experiment that tests transformation efficiency**

## **SCIENCE AS A PROCESS**

**Describe an experiment that tests linkage of two genes**

## **SCIENCE AS A PROCESS**

**Describe the experiments by T.H. Morgan that determined that genes are on chromosomes**

## **SCIENCE AS A PROCESS**

**Describe the experiments by Fred Griffith that supported the “Transforming Principle”**

## **SCIENCE AS A PROCESS**

**Describe the experiments by Avery, McCarty & MacLeod that determined that DNA was the “Transforming Factor”**

## **SCIENCE AS A PROCESS**

**Describe the experiments by Hershey & Chase that confirmed that DNA was the “Transforming Factor”**

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**Describe an experiment that tests the effect of a factor on enzyme function**

**SCIENCE AS A PROCESS**

**Explain the difference between a dependent & an independent variable in an experiment**

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**Explain what a confounding variable (constant) is**

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**Explain the value of a control in an experiment**

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**Explain the value of a statistical test in an experiment**

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**Explain how to use the Chi square test**

**SCIENCE AS A PROCESS**

**Discuss the molecular evidence supporting the theory of evolution by natural selection**

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**Discuss the fossil evidence supporting the theory of evolution by natural selection**

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**Discuss the anatomical evidence supporting the theory of evolution by natural selection**

**SCIENCE AS A PROCESS**

**Discuss the evidence from artificial selection that supports the theory of evolution by natural selection**

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**Describe the experiments by Miller & Urey that support the Spontaneous Abiotic Origin hypothesis**

**SCIENCE AS A PROCESS**

**Discuss the evidence that lead to the reorganization of taxonomy into 3 Domains & 6 Kingdoms**

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**Explain what the terms “hypothesis” and “theory” mean in science**

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**Describe an experiment that compares DNA or proteins from two individuals**

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