Scientific Perspectives on Nursery Rhymes

Science · Answer Key · 18 Questions

1. In the rhyme 'Humpty Dumpty', what biological structure is an eggshell primarily made of to provide protection for the embryo?

A) Calcium carbonate
B) Sodium chloride
C) Iron oxide
D) Silicon dioxide

2. 'Jack and Jill' describes climbing a hill. In physics, what force must be overcome to move an object vertically against gravity?

A) Magnetism
B) Friction
C) Work
D) Static electricity

3. The rhyme 'Twinkle, Twinkle, Little Star' refers to stars. What is the primary state of matter that makes up a star?

A) Solid
B) Liquid
C) Plasma
D) Bose-Einstein condensate

4. In 'Mary Had a Little Lamb', lambs are the young of which domesticated mammal species?

A) Capra hircus
B) Ovis aries
C) Bos taurus
D) Sus scrofa

5. The rhyme 'Rain, Rain, Go Away' concerns precipitation. In the water cycle, what is the process where liquid water turns into gas?

A) Condensation
B) Precipitation
C) Evaporation
D) Freezing

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6. 'Peter Piper picked a peck of pickled peppers.' Peppers belong to which scientific family of flowering plants?

A) Solanaceae
B) Rosaceae
C) Poaceae
D) Fabaceae

7. In 'Hey Diddle Diddle', a cow jumps over the moon. What is the primary chemical element that makes up the bulk of the Moon's surface crust?

A) Hydrogen
B) Oxygen
C) Carbon
D) Gold

8. The rhyme 'One, Two, Buckle My Shoe' involves counting. Which field of science is primarily concerned with the study of numbers and quantities?

A) Biology
B) Chemistry
C) Mathematics
D) Geology

9. 'Baa, Baa, Black Sheep' mentions wool. Wool is a natural fiber primarily composed of which structural protein?

A) Keratin
B) Collagen
C) Elastin
D) Myosin

10. In 'Three Blind Mice', what is the scientific name for the common house mouse?

A) Rattus norvegicus
B) Mus musculus
C) Sciurus carolinensis
D) Cavia porcellus

11. The rhyme 'The Itsy Bitsy Spider' mentions a spider. Spiders are classified as which type of animal?

A) Insect
B) Crustacean
C) Arachnid
D) Mollusk

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12. 'Little Miss Muffet' sat on a tuffet eating curds and whey. Curds are produced by the coagulation of which protein found in milk?

A) Casein
B) Albumin
C) Hemoglobin
D) Insulin

13. 'London Bridge is Falling Down' mentions a bridge. Which force, if it exceeds the strength of a structure, causes it to collapse?

A) Buoyancy
B) Tension
C) Stress
D) Surface tension

14. In 'Hickory Dickory Dock', a clock is used to measure time. What is the SI unit for measuring time?

A) Minute
B) Hour
C) Second
D) Day

15. 'Hot Cross Buns' are baked goods. Which process, performed by yeast, creates carbon dioxide bubbles to make dough rise?

A) Photosynthesis
B) Fermentation
C) Respiration
D) Oxidation

16. 'Ring a Ring o' Roses' mentions flowers. Flowers are the reproductive structures of which group of plants?

A) Gymnosperms
B) Angiosperms
C) Bryophytes
D) Pteridophytes

17. 'Old Mother Hubbard' goes to the cupboard to find a bone. Bones in vertebrates are primarily composed of which mineral?

A) Calcium phosphate
B) Potassium nitrate
C) Magnesium sulfate
D) Sodium fluoride

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18. In the rhyme 'Five Little Ducks', ducks belong to which class of vertebrates?

A) Mammalia
B) Reptilia
C) Amphibia
D) Aves