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India— Agriculture

Lesson Plan

Contents

- > What agriculture is and why it is important
- India's agricultural resources
- Types of crops and agricultural seasons in India
- Green Revolution
- Crops produced, cattle rearing, fishes

Objectives

- Learning what agriculture is and its importance
- > The resources India has that make it an agricultural nation
- The agricultural seasons in India and the crops grown in them
- > The Green Revolution
- Some of the major crops: rice, wheat, maize, millets, pulses, oilseeds, sugarcane, tea, coffee, cotton, jute and spices
- Cattle rearing and fishes

W Teacher's Aids

- ▶ Maps of India Political and Physical
- ▶ Maps showing distribution of crops
- Atlases
- ▶ Blank maps of India for the students
- ▶ Blackboard, the internet, pictures, magazines, etc.

**** Tips for Teacher

- ▶ Correlate what has been learnt about regions, climate, physical features, vegetation, etc., with the pattern of agriculture and the distribution of crops.
- ▶ Students should be able to understand how everything in an area is connected.

W Gear Up, Background

- ▶ Gear Up shows the picture of MS Swaminathan, the man behind the Green Revolution.
- ▶ Read the lesson aloud, including the points to remember, and explain.
- ▶ What is agriculture: Cultivation of land for growing crops; horticulture; rearing of animals; fishing.
- ▶ Important occupation Farming food for everyone 65% of India's population depends on agriculture. Apart from farming related agro-based industries: storage, transport, food processing, vegetable oils, refining, packaging, export-import, fertilisers, seeds, marketing, etc.
- ▶ India's rich agricultural resources Suitable climate for cultivation almost throughout the year; enough water for irrigation; fertile alluvial soil.

W Types of Crops

- ▶ Two main agricultural seasons: Kharif and Rabi
- ▶ Kharif begins with monsoon showers rice, maize, millets, pulses, groundnuts, cotton and jute. Rabi begins at the end of rainy season wheat, gram, mustard, barley and oilseeds.
- ▶ Crops for food and cash crops grown
- ▶ Food crops rice, wheat, maize, millets [jowar, bajra, ragi] and pulses.
- ▶ Cash crops sugarcane, oilseeds, cotton, jute, tea, coffee, rubber, tobacco and spices. They provide income to farmers.
- ▶ **Green Revolution:** Progress in agriculture due to improved irrigation, use of fertilisers and manures, tractors and other machines, use of improved seeds and more land under farming.

Some Crops

- (i) Rice second largest producer in the world after China hot humid climate Bengal, Assam, Jharkhand, Bihar, Chhattisgarh, Andhra Pradesh, Tamil Nadu, Kerala, Punjab, Haryana. Most consumed in India.
 - (ii) Wheat second important food crop cool, moist climate Punjab, Haryana, Western Uttar Pradesh, Madhya Pradesh, Bihar, Rajasthan, Gujarat, Maharshtra.
 - (iii) Maize coarse grain high temperature and moderate rainfall Uttar Pradesh, Rajasthan, Punjab, Haryana, Bihar – also used for feeding cattle –introduced from North America.
 - (iv) Millets Jowar, bajra, ragi where rice and wheat cannot be grown Bihar, Rajasthan, Gujarat, Karnataka, Andhra Pradesh, Telangana.
 - (v) Pulses gram, urad, moong, arhar, peas, masoor, etc. called lentils [dal] almost every state India largest producer and consumer important part of our food.
 - (vi) Oilseeds mustard, groundnuts, linseed, sesame, rapeseed, cotton seed, sunflower seed, soyabean, etc. different parts of the country largest producer in world oil extracted used for cooking vegetable oil.

- (vii) Sugarcane hot wet climate used to make sugar and gur [jaggery/molasses] largest producer in world Maharashtra, Uttar Pradesh, Bihar, Madhya Pradesh, Tamil Nadu, Punjab, Andhra Pradesh, Karnataka.
- (viii) Tea plantation crop warm wet climate largest producer in world Assam, Bengal, Himachal Pradesh, Nilgiri hills. Best quality Darjiling.
- (ix) Coffee plantation crop warm with moderate rainfall Karnataka, Kerala, Tamil Nadu good quality exported.
- (x) Cotton lava soil of Deccan Trap hot wet climate during growing season & bright sunshine for ripening Gujarat, Punjab, Haryana, Rajasthan, Madhya Pradesh, Andhra Pradesh, Telangana, Tamil Nadu.
- (xi) Jute called golden fibre ropes, bags and carpets hot wet climate Bengal, Assam, Bihar, Odisha goods exported.
- (xii) Spices chillies, black pepper, cardamom, cinnamon, coriander, cloves, ginger, turmeric, etc. Kerala, Karnataka.

W Cattle Rearing

- ▶ Every part of India cows, buffaloes, goats, sheep, pigs, camels, poultry
- ▶ Cattle and poultry for milk, meat, eggs, skin and bones
- ▶ Largest number of cattle in the world
- ▶ Bullocks used for farm work
- ▶ Sheep and camels wool camel 'ship of the desert'

W Fishing

- ▶ Coastal areas, rivers and ponds
- ▶ Sardine, tuna, herring, salmon, mackerel, trout
- ▶ Blue Revolution Increase in fish production in small ponds and water bodies